$5.00

Synopsis of the Parasites of Vertebrates of Canada

Helminths and Protozoa of Terrestrial Mammals

Murray J. Kennedy
Alberta Agriculture
Veterinary Laboratory
6909 - 116 Street
Edmonton, Alberta
Canada T6H 4P2

Alberta
AGRICULTURE
Animal Health Division

86-06307/

Copies of this publication are available from the
Queen's Printer, 11510 Kingsway Avenue, Edmonton T5G 2Y5
Orders must be accompanied by a cheque for $5.00 made out to
The Provincial Treasurer.

1986 09 500

SYNOPSIS OF THE PARASITES OF VERTEBRATES OF CANADA

Helminths and Protozoa of Terrestrial Mammals

Murray J. Kennedy
Alberta Agriculture
Veterinary Laboratory
6909 - 116 Street
Edmonton, Alberta
Canada T6H 4P2

Abstract

This synopsis contains Parasite-Host and Host-Parasite lists of 355 species of parasites from 92 species (15 with 1 subspecies; 9 with 2 subspecies; 3 with 3 subspecies; and 1 with 4 subspecies) of terrestrial mammals from Canada. The 355 species of parasites are distributed among higher taxa as follows: Protozoa - 70; Trematoda - 62; Cestoidea - 65 (*Cysticercus* spp. are not included in the total); Nematoda - 158; and Acanthocephala - 2.

Introduction

The compiled information covers the period from 1853 to June, 1985 and was extracted from numerous publications in the primary scientific literature. Journal series such as the Canadian Journal of Zoology, Canadian Journal of Research, Journal of Wildlife Diseases, Journal of Protozoology, Proceeding of the Helminthological Society of Washington, and the Journal of Parasitology were searched in their entirety. Abstracting series such as Zoological Records, Helminthological Abstracts, and Protozoology Abstracts were scanned for additional references. Theses and reports of federal and provincial governments and of other institutions were not searched extensively, hence, some existing records may have been omitted.

In providing references to the parasite-host-distribution data, I have attempted to include only reports based on original records, but screening all reports to ensure complete exclusion of repetitive records based on the same material was not possible. Publications that do not provide original parasite-host-distribution records but deal with some aspect of Canadian mammalian wildlife parasitology are compiled in a supplementary list of references.

The synopsis indicates that up to June, 1985, at least 355 species of parasites have been reported from 92 species (15 with 1 subspecies; 9 with 2 subspecies; 3 with 3 subspecies; and 1 with 4 subspecies) of terrestrial mammals. Parasites not identified to the species level are not included in the total number. The 355 species are divided among major taxa as follows: Protozoa - 70; Trematoda - 62; Cestoidea - 65 (*Cysticercus* spp. are not included in the total); Nematoda - 158; and Acanthocephala - 2.

The taxonomic arrangement adopted for each phylum or class of parasitic organism included in Canadian records, in most cases, is as follows:

Protozoa - Levine et al. (1980)

Trematoda - Brooks et al. (1985)

Cestoidea - Schmidt (1986)

Nematoda - Anderson et al. (1974-1983)

Acanthocephala - Amin (1982)

Host nomenclature and classification conforms to that of Hall (1981), except that *Odocoileus* rather than *Dama* is used for the generic name of the white-tailed, mule, and black-tailed deer. The entries in the synopsis are organized in accordance with the format adopted by Margolis and Arthur (1979) in their *Synopsis of the parasites of fishes of Canada*.

The Parasite-Host List is organized by higher taxa of parasites in the following order: Protozoa, Platyhelminthes (Trematoda, Cestoidea), Aschelminthes (Nematoda), and Acanthocephala. Species, genera, and family names are listed in alphabetical order within their respective next higher taxon, which in the case of a family is either a superfamily or an order, depending on the group in question and the usefulness of including the superfamily or order category.

For each parasite species listed, the following information is provided:

1) The current *scientific name*, including author(s) and date(s), followed by any recognized synonyms that may have been used in establishing the Canadian record(s). No attempt has been made to evaluate systematically the validity of published records, but attention is drawn to obvious errors. Adult and larval stages are recorded separately for the Cestoidea and Nematoda. The term metacestode is used either when the Canadian record used the term, or in cases where the type of cestode larva reported is uncertain.

2) The *site* of occurrence of the parasite in its host(s) (aberrant sites usually are not included). When the site was not given, the likely site was determined from other records.

3) The *hosts*. Only currently accepted scientific names are given in the Parasite-Host List. Numbers in parentheses after each host name correspond with the numbers assigned to the references establishing the particular parasite-host records.

4) *Distribution* (*Dist.*) Species distribution is indicated by Provincial or Territory boundaries listed in alphabetical order as follows: Alta (Alberta), BC (British Columbia), Man (Manitoba), NB (New Brunswick), Nfld (Newfoundland), NS (Nova Scotia), NWT (Northwest Territories), Ont (Ontario), PEI (Prince Edward Island), Que (Quebec), Sask (Saskatchewan), and YT (Yukon Territory).

5) Authors responsible for the *records* are listed in chronological order of the published records. To enable the reader to grasp at a glance the author(s) responsible for particular parasite-host-locality records, I numbered the references listed under "Records" and placed the corresponding number(s) after the host name, and each reference is followed by the locality or localities from which the parasite was (were) reported. An interrogation mark (?) after the locality indicates an uncertain locality record. When only one host is listed for a particular parasite, the references are not numbered, and when all records are from the same locality, the latter was not listed after the authors' names.

6) Under *remarks*, explanatory comments, as required, are offered on systematics, nomenclature, misidentifications, and synonyms of parasites; and on the hosts, sites within hosts, and validity of previous records.

In the Host-Parasite List, within each order or suborder, the families, genera, species, and subspecies are listed alphabetically. Host synonyms included are only those that were used in establishing the Canadian parasite records. After the name of each parasite species, its geographic distribution in the host in question is given in parentheses.

The REFERENCES are given in two groups, the first includes those directly referred to in the text and a second, SUPPLEMENTARY REFERENCES, contains a list of publications dealing with various aspects of parasites of Canadian mammals but which do not contain original parasite-host records.

To facilitate access to information in the parasite-host and host-parasite lists, the publication concludes with an INDEX to parasite and host scientific names.

PARASITE-HOST LIST

KINGDOM ANIMALIA
SUBKINGDOM PROTOZOA

PHYLUM SARCOMASTIGOPHORA
SUBPHYLUM MASTIGOPHORA
CLASS ZOOMASTIGOPHOREA
ORDER DIPLOMONADIDA
FAMILY HEXAMITIDAE

Giardia mesocricetus Filice, 1952
Site: intestine
Hosts: *Mesocricetus auratus* (1,2)
Lab. rats (2)
Dist.: Ont
Records: 1. Grant and Woo 1978a, 2. 1978b

Giardia microti Kofoid and Christiansen, 1915
Site: intestine
Hosts: *Mesocricetus auratus* (3)
Microtus pennsylvanicus (2,3)
Field mice (1)
Lab. hamsters (3)
Dist.: NS, Ont
Records: 1. Simon 1921 (NS); 2. Grant and Woo 1978a (Ont), 3. 1978b exp. (Ont)

Giardia muris Grassi, 1881
Site: intestine
Hosts: *Mesocricetus auratus* (4)
Rattus norvegicus (2,3,4)
Lab. mice (1,3,4)
Lab. hamster (4)
Lab. rats (1)
Dist.: NS, Ont, Que
Records: 1. Simon 1921 exp. (NS); 2. Firlotte 1948 (Que); 3. Grant and Woo 1978a (Ont), 4. 1978b exp. (Ont)

Giardia peromysci Filice, 1952
Site: intestine
Host: *Peromyscus maniculatus*
Dist.: Ont
Records: Grant and Woo 1978a, 1978b exp.

Giardia simoni Lavier, 1924
Site: intestine
Hosts: *Rattus norvegicus* (1,2)
Lab. rats (1,2)
Dist.: Ont
Records: 1. Grant and Woo 1978a, 2. 1978b exp.

ORDER KINETOPLASTIDA

Trypanosoma citelli Watson, 1912
Site: blood
Host: *Spermophilus richardsonii*
Dist.: Alta
Record: Watson and Hadwen 1912

Trypanosoma evotomys Hadwen, 1912
Site: blood
Hosts: *Clethrionomys gapperi*
Myotis yumanensis saturatus
Rabbits
Dist.: BC
Record: Watson and Hadwen 1912

Trypanosoma hedricki Bower and Woo, 1981
Site: blood
Host: *Eptesicus fuscus*
Dist.: Ont
Records: Bower and Woo 1981; Paterson and Woo 1984 exp.

Trypanosoma leporis-sylvaticus Watson, 1912
Site: blood
Host: *Sylvilagus nuttallii*
Dist.: Alta
Record: Watson and Hadwen 1912

Trypanosoma lewisi (Kent, 1880) LaVeran and Mesnil, 1901
Site: blood
Host: *Rattus* sp.
Dist.: Ont
Record: Watson and Hadwen 1912

Trypanosoma microti Laveran and Pettit, 1909
Site: blood
Hosts: *Microtus pennsylvanicus*
Microtus sp. lab (exp.)
Dist.: Ont
Record: Woo et al. 1980

Trypanosoma myoti Bower and Woo, 1981
Site: blood
Host: *Myotis lucifugus*
Dist.: Ont
Records: Bower and Woo 1981; Paterson and Woo 1984 exp.

Trypanosoma otospermophili (Wellman and Wherry, 1910) Laveran, 1911
Site: blood
Hosts: *Spermophilus columbianus* (1,2)
S. franklinii (1,2)
S. parryii (1,2)
S. richardsonii (1,2)
S. tridecemlineatus (1,2)
Dist.: Alta, YT
Records: 1. Hilton and Mahrt 1972a, 2. 1972b

Trypanosoma peromysci Watson, 1912
Site: blood
Hosts: *Peromyscus maniculatus*
P. m. nebracensis
Dist.: Alta
Record: Watson and Hadwen 1912

Trypanosoma soricis Hadwen, 1912
Site: blood
Hosts: *Blarina brevicauda* (2)
Sorex vagrans (1)
Dist.: BC, Ont
Records: 1. Watson and Hadwen 1912 (BC); 2. Woo et al. 1980 (Ont)

Trypanosoma tamiasi Riedel, 1975
Sites: blood and organs
Hosts: *Eutamias minimus* (1)
Tamias striatus (1,2)
Dist.: Ont
Records: 1. Riedel 1975; 2. Woo et al. 1980

Trypanosoma sp.
Site: blood
Host: Squirrel
Dist.: BC
Record: Watson and Hadwen 1912

ORDER RETORTAMONADIDA

Chilomastix bettencourti da Fonseca, 1915
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

ORDER TRICHOMONADIDA

Tritrichomonas muris (Grassi, 1879)
Syn.: *Trichomonas muris*
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

SUBPHYLUM SARCODINA

CLASS LOBOSEA

ORDER AMOEBIDA

Entamoeba muris (Grassi, 1879)
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Unidentified Amoebae
Site: intestine
Hosts: *Rangifer tarandus caribou*
Dist.: BC
Record: Low 1976

PHYLUM APICOMPLEXA

CLASS SPOROZOEA

ORDER EUCOCCIDIIDA

SUBORDER EIMERIINA

Besnoitia spp.
Sites: skin, skeletal muscle, nasal mucosa, eye, pituitary, lymph nodes
Hosts: *Rangifer tarandus* (1)
R. t. caribou (3)
Barren-ground caribou (2)
Dist.: NWT, Sask
Records: 1. Gibbs 1960 (NWT?); 2. Choquette et al. 1967(NWT); 3. Wobeser 1976 (Sask)

Eimeria ahsata Honess, 1942
Site: intestine
Host: *Ovis c. canadensis*
Dist.: Alta, BC
Record: Uhazy et al. 1971

Eimeria albertensis Hair and Mahrt, 1970
Site: intestine
Host: *Ursus americanus*
Dist.: Alta
Record: Hair and Mahrt 1970

Eimeria arizonensis Levine, Ivens, and Kruidenier, 1957
Site: intestine
Host: *Peromyscus maniculatus*
Dist.: BC
Record: Levine and Ivens 1963

Eimeria athabascensis Samoil and Samuel, 1977
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria banffensis Lepp, Todd and Samuel,1973
Site: intestine
Host: *Ochotona collaris*
Dist.: Alta, YT
Record: Hobbs and Samuel 1974

Eimeria barretti Lepp, Todd, and Samuel, 1972
Site: intestine
Hosts:*Ochotona collaris* (2)
O. princeps (1,2)
Dist.: Alta, YT
Records: 1. Lepp et al. 1972 (Alta); 2. Hobbs and Samuel 1974 (Alta, YT)

Eimeria bilamellata Henry, 1932
Site: intestine
Hosts:*Spermophilus columbianus*
S. franklinii
S. richardsonii
Dist.: Alta
Record: Hilton and Mahrt 1971

Eimeria borealis Hair and Mahrt, 1970
Site: intestine
Host: *Ursus americanus*
Dist.: Alta
Record: Hair and Mahrt 1970

Eimeria calentinei Duszynski and Brunson, 1973
Site: intestine
Hosts:*Ochotona collaris* (2)
O. princeps (1,2)
Dist.: Alta, YT
Records: 1. Lepp et al. 1973 (Alta); 2. Hobbs and Samuel 1974 (Alta, YT)

Eimeria callospermophili Henry, 1932
Site: intestine
Hosts:*Spermophilus columbianus*
S. franklinii
S. richardsoni
Dist.: Alta
Record: Hilton and Mahrt 1971

Eimeria carinii Pinto, 1926
Site: intestine
Hosts:*Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Eimeria circumborealis Hobbs and Samuel, 1974
Site: intestine
Hosts:*Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs and Samuel 1974

Eimeria confusa Joseph, 1969
Site: intestine
Hosts:*Sciurus carolinensis*
Dist.: Ont
Record: Lee and Dorney 1971

Eimeria crandallis Honess, 1942
Site: intestine
Host: *Ovis c. canadensis*
Dist.: Alta, BC
Record: Uhazy et al. 1971

Eimeria dorneyi Levine and Ivens, 1965
Site: intestine
Host: *Glaucomys sabrinus*
Dist.: Ont
Record: Soon and Dorney 1969a

Eimeria faurei (Moussu and Marotel, 1902) Martin, 1909
Site: intestine
Hosts:*Ovibos moschatus* (2)
Ovis c. canadensis (1)
Dist.: Alta, NWT, Que
Records: 1. Uhazy et al. 1971 (Alta); 2. Duszynski et al. 1977 (Alta, NWT, Que)

Eimeria granulosa Christensen, 1938
Site: intestine
Hosts:*Ovibos moschatus* (2)
Ovis c. canadensis (1)
Dist.: Alta, NWT
Records: 1. Uhazy et al. 1971 (Alta); 2. Duszynski et al. 1977 (NWT)

Eimeria holmesi Samoil and Samuel, 1977
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel, 1977b

Eimeria intricata Spiegl, 1925
Site: intestine
Host: *Ovis c. canadensis*
Dist.: Alta
Record: Uhazy et al. 1971

Eimeria keithi Samoil and Samuel, 1977
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria klondikensis Hobbs and Samuel, 1974
Site: intestine
Hosts: *Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs and Samuel 1974

Eimeria lateralis Levine, Ivens, and Kruidenier, 1957
Site: intestine
Hosts: *Spermophilus columbianus*
S. richardsonii
Dist.: Alta
Record: Hilton and Mahrt 1971

Eimeria leporis Nieschulz, 1923
Site: small intestine
Hosts: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria miyairii Ohira, 1912
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Eimeria moschati Duszynski, Samuel, and Gray, 1977
Site: intestine
Host: *Ovibos moschatus*
Dist.: Alta, NWT, Que
Record: 1. Duszynski et al. 1977

Eimeria mustelae Kingscote, 1934
Site: intestine
Hosts: *Mustela putoris* (exp)
M. vison
Dist.: Ont
Record: Kingscote 1934

Eimeria ninakohlyakimovae Yakimoff and Rastegaieff, 1930
Site: intestine
Hosts: *Ovis c. canadensis*
Dist.: Alta, BC
Record: Uhazy et al. 1971

Eimeria ontarioensis Lee and Dorney, 1971
Site: intestine
Host: *Sciurus carolinensis*
Dist.: Ont
Record: Lee and Dorney 1971

Eimeria oomingmakensis Duszynski, Samuel, and Gray, 1977
Site: intestine
Host: *Ovibos moschatus*
Dist.: NWT
Record: Duszynski et al. 1977

Eimeria ovibovis Duszynski, Samuel, and Gray, 1977
Site: intestine
Host: *Ovibos moschatus*
Dist.: Alta, NWT, Que
Record: Duszynski et al. 1977

Eimeria ovina Levine and Ivens, 1970
Site: intestine
Hosts: *Ovibos moschatus* (2)
Ovis c. canadensis (1)
Dist.: Alta, BC, NWT, Que
Records: 1. Uhazy et al. 1971 (Alta, BC); 2. Duszynski et al. 1977 (Alta, NWT, Que)

Eimeria parva Kotlan, Mocsy, and Vajda, 1929
Site: intestine
Host: *Ovis c. canadensis*
Dist.: Alta, BC
Record: Uhazy et al. 1971

Eimeria princepsis Duszynski and Brunson, 1973
Site: intestine
Hosts: *Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs and Samuel 1974

Eimeria robertsoni (Madsen, 1938) Carvalho, 1943
Syn: *Eimeria magna* var. *robertsoni* Madsen, 1938
E. m. f. *townsendi* Carvalho, 1943 *pro parte*
E. perforans var. *groenlandica* Madsen, 1938.
Site: duodenum
Host: *Lepus americanus*
Dist.: Alta
Records: Samoil and Samuel 1977a exp., 1977b

Eimeria rochesterensis Samoil and Samuel, 1977
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria rowani Samoil and Samuel, 1977
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria ruficaudati Gill and Ray, 1960
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria separata Becker and Hall, 1931
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Eimeria siniffi Levine and Ivens, 1963
Site: intestine
Host: *Peromyscus maniculatus*
Dist.: BC
Record: Levine and Ivens 1963

Eimeria spermophili Hilton and Mahrt, 1971
Site: intestine
Hosts: *Spermophilus franklinii*
S. richardsonii
Dist.: Alta
Record: Hilton and Mahrt 1971

Eimeria stiedae Lindemann, 1865
Site: liver
Host: *Ondatra zibethicus*
Dist.: Ont
Record: Law and Kennedy 1932

Eimeria tamiasciuri Levine, Ivens, and Kruidenier, 1957
Site: intestine
Host: *Tamiasciurus hudsonicus*
Dist.: Alta
Record: Mahrt and Chai 1970, 1972.

Eimeria toddi Dorney, 1962
Site: intestine
Host: *Tamiasciurus hudsonicus*
Dist.: Alta
Record: Mahrt and Chai 1970, 1972

Eimeria townsendi (Carvalho, 1943) Pellerdy, 1956
Syn: *Eimeria magna* f. *townsendi* Carvalho, 1956 *pro parte*
Eimeria magna Perard, 1925 *pro parte*
Site: intestine
Host: *Lepus americanus*
Dist.: Alta
Record: Samoil and Samuel 1977b

Eimeria worleyi Lepp, Todd, and Samuel, 1972
Site: intestine
Host: *Ochotona princeps*
Dist.: Alta
Record: Lepp et al. 1972

Eimeria spp.
Site: intestine
Hosts: *Lepus americanus* (1)
Ovibos moschatus (4)
Ovis canadensis californiana (2)
Sciurus carolinensis (3)
Dist.: Alta, BC, Man, NWT, Ont, Que
Records: 1. Boughton 1932 (Man); 2. Blood 1963 (BC); 3. Lee and Dorner 1971 (Ont); 4. Samuel and Gray 1974 (Alta capt., NWT, Que capt.)
Remarks: Boughton (1932) believed his *Eimeria* spp. may be *Eimeria stiedae* and *E. perforans*.

Frenkelia microti (Findlay and Middleton, 1934) Biocca, 1968
Site: brain
Host: *Ondatra zibethicus*
Dist.: Ont
Record: Karstad 1963

Isospora marquardti Duszynski and Brunson, 1972
Site: intestine
Hosts: *Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs and Samuel 1974

Isospora yukonensis Hobbs and Samuel, 1974
Site: intestine
Host: *Ochotona collaris*
Dist.: YT
Record: Hobbs and Samuel 1974

Sarcocystis campestris Cawthorn, Wobeser and Gajadhar, 1983
Sites: intestine, vascular endothelium, skeletal muscle
Hosts: *Spermophilus richardsonii* (exp.)
Taxidea taxus
Dist.: Sask
Record: Cawthorn et al. 1983

Sarcocystis spp. cysts
Site: cardiac muscle, skeletal muscle
Hosts: *Alces alces* (2,3,4,10)
A. alces andersoni (7)
Bison bison (1,10)
Cervus elaphus (10)
Odocoileus hemionus (10)
O. virginianus (6,10)
Oreamnos americanus (10)
Ovibos moschatus (8)
Ovis canadensis (10)
Rangifer tarandus (5)
R. t. caribou (9)
Dist.: Alta, NS, NWT, Ont, Sask
Records: 1. Cameron 1923 (Alta); 2. DeVos and Allin 1949 (Ont); 3. Kelly et al. 1950 (NS); 4. Peterson 1955 (Ont); 5. Gibbs 1960 (NWT?); 6. Karstad and Trainer 1969 (Ont); 7. Barrett 1972 (Alta); 8. Samuel and Gray 1974 (NWT); 9. Wobeser 1976 (Sask); 10. Mahrt and Colwell 1980 (Alta)

Toxoplasma gondii Nicolle and Manceaux, 1908
Site: serum
Hosts: *Blarina brevicauda* (1)
Canis latrans (1,2)
Martes martes (2)
M. pennanti (2)
Mephitis mephitis (1,2,4)
Mus musculus (3)
Mustela vison (2)
Peromyscus maniculatus (3)
Procyon lotor (2)
Rattus norvegicus (3)
Sylvilagus floridanus (2)
Ursus americanus (1,2)
Vulpes vulpes (1,2)
Dist.: Alta, Ont, Sask
Records: 1. Quinn et al. 1976 (Ont); 2. Tizard et al. 1976 (Ont); 3. Tizard et al. 1978 (Ont); 4. Schowalter et al. 1980 (Alta, Sask)
Remarks: All reports used serological methods to detect *T. gondii*.

Unidentified Eucoccidiida
Eucoccidiida gen. spp.
Site: epididymis, intestine, liver
Hosts: *Alopex lagopus* (4)
Cervus elaphus (5)
Ochotona princeps (1)
Ursus americanus (3)
Rabbit (2)
Dist.: Alta, NWT, Ont, Que, Sask
Records: 1. Lubinsky 1957 (Alta); 2. Westermann and Engelbert 1969 (Ont); 3. Juniper 1978 (Que); 4. Eaton and Secord 1979 (NWT); 5. Hrudka et al. 1983 (Sask)

SUBORDER ADELEINA

Hepatozoon spp.
Site: lungs
Hosts: *Mustela vison* (2)
Tamiasciurus hudsonicus (1)
Dist.: Alta, Ont
Records: 1. Mahrt and Chai 1972 (Alta); 2. Presidente and Karstad 1975 (Ont).

PHYLUM MICROSPORA
CLASS MICROSPOREA
ORDER MICROSPORIDA

Encephalitozoon cuniculi Levaditi, Nicolau and Schoen, 1923
Site: brain
Host: *Ondatra zibethicus*
Dist.: Sask
Record: Wobeser and Schuh 1979

Unidentified Protozoa

Protozoa gen. spp.
Site: intestine
Host: *Ondatra zibethicus*
Dist.: Man
Record: McKenzie and Welch 1979

SUBKINGDOM EUMETAZOA

PHYLUM PLATYHELMINTHES
CLASS TREMATODA
SUBCLASS DIGENEA

FAMILY BRACHYLAEMIDAE

Brachylaima sp.
Site: intestine
Host: *Microtus pennsylvanicus terraenovae*
Dist.: Nfld
Record: Rausch 1952b

Postharmostomum helicis (Leidy, 1847) Robinson, 1949
Site: caecum
Host: *Peromyscus maniculatus*
Dist.: Que
Record: Schad 1956

Scaphiostomum pancreaticum McIntosh, 1934
Site: pancreatic duct
Host: *Tamias striatus*
Dist.: Ont
Record: Jensen 1972 exp.

FAMILY DICROCOELIIDAE

Dicrocoelium dendriticum (Rudolphi, 1819) Looss, 1899
Syn: *Dicrocoelium lanceolatum*
Sites: liver, gall bladder, pancreatic duct, duodenum
Hosts: *Lepus americanus struthopus* (2)
Mink (1)
Dist.: Nfld, PEI
Records: 1. Conklin and Baker 1930 (PEI); 2. Dodds and Mackiewicz 1961 (Nfld)

FAMILY DIPLOSTOMIDAE

Alaria alata (Goeze, 1782) Krause, 1914
Site: intestine
Host: *Vulpes vulpes*
Dist.: Man, PEI, Que
Record: Swales 1933b (PEI, Que); Baron 1970 (Man)

Alaria americana Hall and Wigdor, 1918
Syn.: *Alaria canis*
Site: intestine
Hosts: *Canis latrans* (4,5)
C. lupus (1,4,5,6,7)
Lynx lynx (4)
L. rufus (4)
Martes pennanti (4)
Ursus americanus (7)
Vulpes vulpes (1,2,3,4,8)
Dist.: Alta, NB, NS, Ont, PEI, Que, YT
Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (PEI, Que); 3. Pearson 1954 exp. (Ont), 4. 1956 (Ont); 5. Holmes and Podesta 1968 (Alta); 6. Choquette, Gibson et al. 1973 (YT); 7. Addison et al. 1978 (Ont); 8. Smith 1978b (NB, NS)

Alaria americana Hall and Wigdor, 1918 (mesocercaria)
Sites: many tissues
Hosts: *Lutra canadensis* (2 nat.)
Mus musculus (2)
Mustela putorius (2)
Peromyscus maniculatus (1,2)
Ferret (1)
Lab. mice (1)
Dist.: Ont
Records: 1. Pearson 1954 exp., 2. 1956 exp.

Alaria arisaemoides Augustine and Uribe, 1927
Site: intestine
Hosts: *Canis latrans* (3,4,6)
C. lupus (5,6)
Vulpes vulpes (1,2,6,7)
Dist.: Alta, Man, NB, NS, NWT, Ont, YT
Records: 1. Law and Kennedy 1932 (Ont); 2. Pearson 1954 exp. (Ont); 3. 1956 (Ont); 4. Holmes and Podesta 1968 (Alta); 5. Choquette, Gibson et al. 1973 (NWT, YT); 6. Samuel, Ramalingam et al. 1978 (Man); 7. Smith 1978b (NB, NS)

Alaria arisaemoides Augustine and Uribe, 1927 (mesocercaria)
Sites: many tissues
Hosts: *Mus musculus* (2)
Peromyscus maniculatus (1,2)
Ferret (1)
Lab. mice (1)
Dist.: Ont
Records: 1. Pearson 1954 exp., 2. 1956

Alaria canadensis Webster and Wolfgang, 1956
Site: small intestine
Host: *Mephitis mephitis*
Dist.: Que
Record: Webster and Wolfgang 1956

Alaria craterum (Barker and Noll, 1915)
Site: duodenum
Hosts: *Mustela vison* (1)
Ondatra zibethicus (1)
Dist.: Ont
Record: Law and Kennedy 1932

Alaria marcianae (LaRue, 1917) Walton, 1950
Site: intestine
Hosts: *Canis latrans* (1)
C. lupus (1,3)
Procyon lotor hirtus (2)
Vulpes vulpes (2)
Dist.: Man, Que, Sask
Records: 1. Samuel, Ramalingam et al. 1978 (Man); 2. Hoberg and McGee 1982 (Sask); 3. McNeill et al. 1984 (Que)

Alaria mustelae Bosma, 1931
Site: duodenum, intestine
Hosts: *Martes pennanti* (4)
Mustela vison (1)
Ondatra zibethicus (1,2,5)
Vulpes vulpes (1,3)
Dist.: Man, NB, NS, Ont
Records: 1. Law and Kennedy 1932 (Ont); 2. Sweatman 1952b (Ont); 3. Smith 1978b (NB, NS); 4. Dick and Leonard 1979 (Man); 5. McKenzie and Welch 1979 (Man)

Alaria mustelae Bosma, 1931 (mesocercaria)
Site: lungs, spleen, musculature
Host: *Spermophilus franklinii*
Dist.: Sask
Record: McGee 1980 (Sask)

Alaria taxideae Swanson and Erickson, 1946
Site: intestine
Host: *Martes americana* (2)
M. a. actuosa (1)
Dist.: Man, NWT
Records: 1. Holmes 1963 (NWT); 2. Poole et al. 1983 (Man)

Alaria spp.
Site: intestine
Hosts: *Lynx lynx* (2)
Gulo gulo (3)
Martes pennanti (1)
Dist.: Alta, NWT, Ont
Records: 1. Anonymous 1930 (Ont); 2. Zyll DeJong 1966 (Alta, NWT); 3. Addison and Boles 1978 (NWT)

Diplostomum mergi Dubois, 1932
Site: intestine
Host: *Ondatra zibethicus obscurus*
Dist.: Nfld
Record: Rigby and Threlfall 1981

Diplostomum spathaceum (Rudolphi, 1819) Olsson, 1878
Site: eye
Hosts: Lab. hamster
Lab. rabbit
Dist.: Ont
Record: Lester and Freeman 1976 exp.

Fibricola cratera (Barker and Noll, 1915) Dubois, 1932
Site: intestine
Host: *Mephitis mephitis*
Dist.: Que
Record: Webster and Wolfgang 1956
Remarks: Webster and Wolfgang (1956) did not specify the site in which their specimens were found, but presumably it was the intestine.

Fibricola laruei Miller, 1940
Site: small intestine
Host: *Procyon lotor*
Dist.: Que
Record: Miller 1940

Pharyngostomoides adenocephala Beckerdite, Miller and Harkema, 1971
Site: intestine
Hosts: *Procyon lotor* (2)
P. l. hirtus (1)
Dist.: Ont, Sask
Records: 1. Hoberg and McGee 1982 (Sask); 2. Butterworth and Holmes 1984 (Ont)

Pharyngostomoides procyonis Harkema, 1942
Site: intestine
Host: *Procyon lotor*
Dist.: Ont
Record: Butterworth and Holmes 1984

FAMILY ECHINOSTOMATIDAE

Echinochasmus schwartzi Price, 1931
Site: intestine
Host: *Ondatra zibethicus*
Dist.: Ont
Record: Law and Kennedy 1932

Echinoparyphium contiguum Barker and Bastron, 1915
Sites: duodenum, intestine
Hosts: *Ondatra zibethicus* (1,2,3)
O. z. obscurus (4)
Dist.: BC, Nfld, Ont
Records: 1. Law and Kennedy 1932 (Ont); 2. Knight 1951 (BC); 3. Sweatman 1952b (Ont); 4. Rigby and Threlfall 1981 (Nfld)

Echinoparyphium recurvatum (Linstow, 1873) Lühe, 1909
Site: intestine
Host: *Ondatra zibethicus obscurus*
Dist.: Nfld
Record: Rigby and Threlfall 1981

Echinoparyphium sp.
Site: intestine
Host: *Ondatra zibethicus*
Dist.: NB
Record: MacKinnon and Burt 1978

Echinostoma callawayensis Barker and Noll, 1915
Sites: duodenum, small intestine
Host: *Ondatra zibethicus*
Dist.: Ont
Records: Law and Kennedy 1932; Sweatman 1952

Echinostoma revolutum Froelich, 1802
Sites: duodenum, small intestine
Hosts: *Castor canadensis* (6)
Ondatra zibethicus (1,2,3,4,5,7,9)
O. z. obscurus (10)
Vulpes vulpes (8)
Dist.: BC, Man, NB, Nfld, NS, Ont, Que
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Knight 1951 (BC); 4. Sweatman 1952b (Ont); 5. Gupta 1962b (Que); 6. Smith and Archibald 1967 (NS); 7. MacKinnon and Burt 1978 (NB); 8. Smith 1978b (NB, NS); 9. McKenzie and Welch 1979 (Man); 10. Rigby and Threlfall 1981 (Nfld)

Echinostoma spp.
Site: intestine
Hosts: *Martes pennanti* (1)
Ondatra zibethicus (2)
Dist.: Alta, Ont
Records: 1. Anonymous 1930 (Ont); 2. Swales 1933b (Alta)

Euparyphium inerme Fuhrmann, 1904
Site: intestine
Host: *Mustela vison*
Dist.: Ont
Records: Law and Kennedy 1932; Price 1932

Euparyphium melis Schrank, 1788
Site: duodenum
Host: *Mustela vison*
Dist.: Ont
Record: Law and Kennedy 1932

FAMILY FASCIOLIDAE

Fasciola hepatica Linnaeus, 1758
Site: liver
Host: *Odocoileus hemionus columbianus*
Dist.: BC
Record: Hadwen 1916

Fascioloides magna (Bassi,1875) Ward, 1917
Syn.: *Fasciola magna*
Site: liver
Hosts: *Alces alces* (10,11 BC,12,15,18,19,20,21)
Bison bison (2,4,5,11)
Cavia porcellus (4 exp.)
Cervus elaphus (5,8,9,10,11,13,14,21)
Cervus spp. (15)
Odocoileus hemionus columbianus (1,3,4,7,11)
O. h. hemionus (6,11)
O. virginianus (4,5,10)
Odocoileus spp. (15)
Oryctolagus cuniculus (4)
Rangifer tarandus caribou (17)
Dist.: Alta, BC, Man, Ont, Que, Sask
Records: 1. Hadwen 1916 (BC); 2. Cameron 1923 (Alta); 3. Hadwen 1932 (BC); 4. Swales 1935 (Alta, BC), 5. 1936 (Que); 6. Cowan 1942 (BC), 7. 1946 (Province?); 8. Kingscote 1947 (Ont); 9. Anonymous 1950 (Ont); 10. Kingscote 1950 (Ont); 11. Cowan 1951 (Alta, BC); 12. Peterson 1955 (Ont); 13. Kingscote 1957 (Ont); 14. Stelfox 1962 (Alta); 15. Fyvie 1966 (Ont); 16. Flook and Stenton 1969 (Alta, BC); 17. Choquette et al. 1971 (Que); 18. Lankester 1972 (Man), 19. 1974 (Man); 20. Samuel et al. 1976 (Alta); 21. Wobeser et al. 1985 (Sask)

FAMILY HETEROPHYIDAE

Apophallus venustus (Ransom, 1920) Cameron, 1936
Site: intestine
Host: *Procyon lotor*
Dist.: Can, Ont
Record: Cameron 1936 (Ont), 1937a (Can)

Apophallus sp.
Site: intestine
Host: *Mephitis mephitis*
Dist.: Que
Record: Webster and Wolfgang 1956
Remarks: Webster and Wolfgang (1956) believed their species may be *Apophallus venustus*.

Cryptocotyle lingua (Creplin, 1825) Lühe, 1899
Site: intestine
Host: *Vulpes vulpes*
Dist.: NB, NS
Record: Smith 1978b

Euryhelmis pyriformis Webster and Wolfgang, 1956
Site: intestine
Host: *Mephitis mephitis*
Dist.: Que
Record: Webster and Wolfgang 1956

Phagicola longa (Ransom, 1920) Price, 1935
Site: intestine
Host: *Vulpes vulpes*
Dist.: Ont, Que
Record: Swales 1933b

FAMILY LECITHODENDRIIDAE

Acanthatrium eptesici Alicata, 1932
Site: digestive tract
Host: *Eptesicus fuscus*
Dist.: BC
Record: Webster and Casey 1973

Acanthatrium nycteridis Faust, 1919
Site: digestive tract
Host: *Lasionycteris noctivagans*
Dist.: BC
Record: Webster and Casey 1973

Lecithodendrium anticum Stafford, 1905
Site: intestine
Host: *Myotis lucifugus*
Dist.: Not specified
Record: Stafford 1905

Lecithodendrium posticum Stafford, 1905
Site: intestine
Host: *Myotis lucifugus*
Dist.: Not specified
Record: Stafford 1905

Limatulum gastroides Macy, 1935
Site: digestive tract
Host: *Lasiurus cinereus*
Dist.: BC
Record: Webster and Casey 1973

Prosthodendrium macnabi Macy, 1936
Site: digestive tract
Hosts: *Eptesicus fuscus*
Lasionycteris noctivagans
Dist.: BC
Record: Webster and Casey 1973

Prosthodendrium naviculum Macy, 1936
Site: digestive tract
Host: *Myotis volans longicrus*
Dist.: BC
Record: Webster and Casey 1973

Prosthodendrium silvai (Travassos, 1928)
Site: intestine
Host: *Lasiurus cinereus*
Dist.: BC
Record: Webster and Casey 1973

Prosthodendrium swansoni Macy, 1936
Site: digestive tract
Host: *Myotis lucifugus*
Dist.: BC
Record: Webster and Casey 1973

Prosthodendrium spp.
Site: digestive tract
Hosts: *Eptesicus fuscus*
Lasionycteris noctivagans
Lasiurus cinereus
Myotis lucifugus
Dist.: BC
Record: Webster and Casey 1973

FAMILY MICROPHALLIDAE

Microphallus sp.
Site: intestine
Host: *Procyon lotor hirtus*
Dist.: Sask
Record: Hoberg and McGee 1982
Remarks: Hoberg and McGee (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.

FAMILY NOTOCOTYLIDAE

Notocotylus filamentis (Barker, 1915) Harwood, 1939
Syn.: *Catatropis filamentis* (Barker, 1915)
Sites: small intestine, large intestine
Host: *Ondatra zibethicus*
Dist.: Man, Ont
Records: Law and Kennedy 1932 (Ont); Sweatman 1952b (Ont); McKenzie and Welch 1979 (Man)

Notocotylus urbanensis (Cort, 1914) Harrah, 1922
Site: caecum
Host: *Ondatra zibethicus*
Dist.: BC, NB, Ont
Records: Knight 1951 (BC); Beverley-Burton and Sweeny 1972 (Ont); MacKinnon and Burt 1978 (NB)

Nudacotyle novicia Barker, 1916
Site: intestine
Host: *Ondatra zibethicus*
Dist.: NB, Ont
Records: Law and Kennedy 1932 (Ont); MacKinnon and Burt 1978 (NB)

Quinqueserialis quinqueserialis (Barker and Laughlin, 1911) Harwood,1939
Syn.: *Notocotylus quinqueserialis* Barker and Laughlin, 1911
Site: caecum
Hosts: *Microtus pennsylvanicus* (4)
Ondatra zibethicus (1,2,3,5,6,7)
O. z. obscurus (8)
Zapus hudsonius (4)
Dist.: BC, Man, NB, Nfld, Ont, Que
Records: 1. Law and Kennedy 1932 (Ont); 2. Sweatman 1952b (Ont); 3. Knight 1951 (BC); 4. Schad 1954 (Nfld, Que); 5. Beverley-Burton and Sweeny 1972 (Ont); 6. MacKinnon and Burt 1978 (NB); 7. McKenzie and Welch 1979 (Man); 8. Rigby and Threlfall 1981 (Nfld)

Quinqueserialis zibethicai Gupta 1962
Site: duodenum
Host: *Ondatra zibethicus*
Dist.: Que
Record: Gupta 1962a

FAMILY OPISTHORCHIIDAE

Metorchis conjunctus (Cobbold, 1860) Looss, 1899
Sites: bile ducts, gall bladder, pancreas
Hosts: *Canis latrans* (2)
Canis lupus (2,6)
Martes pennanti (4)
Ondatra zibethicus (1)
Sigmodon hispidus (5)
Vulpes vulpes (3)
Dist.: Alta, Man, NB, NS, Ont, Que, Sask
Records: 1. Sweatman 1952b (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Smith 1978b (NB, NS); 4. Dick and Leonard 1979 (Man); 5. Watson 1981 exp. (Que); 6. Wobeser et al. 1983 (Sask)

Opisthorchis tonkae Wallace and Penner, 1939
Sites: gall bladder and bile ducts
Host: *Ondatra zibethicus*
Dist.: NB
Record: MacKinnon and Burt 1978
Remarks: MacKinnon and Burt (1978) did not specify the sites in which their specimens were found, but presumably it was the gall bladder and bile ducts.

Parametorchis canadensis Price, 1929
Site: gallbladder
Host: *Mustela vison*
Dist.: Ont
Records: Price 1929; Anonymous 1930, 1931; Law and Kennedy 1932

FAMILY PARAMPHISTOMIDAE

Paramphistomum cervi (Zeder, 1790) Fischoeder, 1901
Site: rumen
Host: *Alces alces*
Dist.: Nfld, Ont, Que, Sask
Records: Peterson 1955 (Ont, Que); Threlfall 1967 (Nfld); Lankester et al. 1979 (Ont); Kennedy et al. 1985 (Ont, Sask)
Remarks: Kennedy et al. (1985) re-examined Lankester's et al. (1979) material and concluded there were two species present: *Paramphistomum cervi* and *Paramphistomum liorchis*.

Paramphistomum liorchis Fischoeder, 1901
Site: rumen
Host: *Alces alces*
Dist.: Ont
Records: Kennedy et al. 1985

Paramphistomum spp.
Site: rumen
Host: *Alces alces*
Dist.: Alta
Record: Samuel et al. 1976

Unidentified Paramphistomidae
Paramphistomidae gen. sp.
Site: intestine
Host: *Ondatra zibethicus obscurus*
Dist.: Nfld
Record: Rigby and Threlfall 1981

Stichorchis subtriquetrus (Rudolphi, 1814) Fischoeder, 1901
Sites: caecum, small intestine
Hosts: *Castor canadensis* (1,2,4,5,6)
C. c. leucodontus (3)
Dist.: Alta, BC, Nfld, NS, Ont, Que
Records: 1. Duff 1914 (Ont, Que); 2. Law and Kennedy 1932 (Ont); 3. Cowan 1942 (BC); 4. Choquette and Pimlott 1956 (Nfld); 5. Smith and Archibald 1967 (NS); 6. Bush and Samuel 1981 (Alta)

Wardius zibethicus Barker and East, 1915
Sites: caecum, colon
Host: *Ondatra zibethicus*
Dist.: Man, NB, Ont
Records: Law and Kennedy 1932 (Ont); MacKinnon and Burt 1978 (NB); McKenzie and Welch 1979 (Man)

Zygocotyle lunata (Diesing, 1835) Stunkard, 1917
Site: caecum
Host: *Alces alces*
Dist.: Alta
Records: Samuel et al. 1976; Stock and Barrett 1983

FAMILY PLAGIORCHIIDAE

Plagiorchis elegans (Rudolphi, 1802)
Site: intestine
Host: *Procyon lotor hirtus*
Dist.: Sask
Record: Hoberg and McGee 1982

Plagior[illegible]is muris Tanabe, 1922
Site: intestine
Host: *Microtus pennsylvanicus*
Dist.: Nfld, Que
Record: Schad 1954

Plagiorchis noblei Fedorova, 1969
Site: intestine
Host: *Ondatra zibethicus*
Dist.: Man
Record: McKenzie and Welch 1979

Plagiorchis proximus Barker, 1915
Sites: small intestine, duodenum
Hosts: *Glaucomys sabrinus* (8)
Mustela vison (1,2)
Ondatra zibethicus (2,4,5,7)
O. z. obscurus (9)
Spermophilus franklinii (8)
S. richardsonii (3,8)
Tamiasciurus hudsonicus (8)
Zapus hudsonius (6)
Dist.: BC, Man, NB, Nfld, Ont, Que, Sask
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Rausch and Tiner 1948 (Man); 4. Knight 1951 (BC); 5. Sweatman 1952b (Ont); 6. Schad 1954 (Nfld, Que); 7. MacKinnon and Burt 1978 (NB); 8. McGee 1980 (Sask); 9. Rigby and Threlfall 1981 (Nfld)

Plagiorchis vespertilionis (Müller, 1784) Braun, 1900
Site: intestine
Hosts: *Eptesicus fuscus* (2)
Lasionycteris noctivagans (2)
Lasiuris cinereus (2)
Myotis californicus (2)
M. lucifugus (1,2)
M. volans longicrus (2)
Dist.: BC
Records: 1. Stafford 1905 (not specified); 2. Webster and Casey 1973 (BC)

Plagiorchis spp.
Site: intestine
Hosts: *Clethrionomys gapperi* (1)
Eptesicus fuscus (2)
Lasionycteris noctivagans (2)
Dist.: BC, Nfld, Que
Records: 1. Schad 1954 (Nfld, Que); 2. Webster and Casey 1973 (BC)

FAMILY PSILOSTOMIDAE

Psilostomum ondatrae Price, 1931
Site: liver
Host: *Ondatra zibethicus*
Dist.: Ont
Record: Law and Kennedy 1932

Stephanoproraoides lawi Price, 1934
Site: small intestine
Host: *Castor canadensis*
Dist.: NS, Ont
Records: Price 1934 (Ont); Smith and Archibald 1967 (NS)

FAMILY SCHISTOSOMATIDAE

Schistosomatium douthitti (Cort, 1914) Price, 1929
Site: hepatic portal vein
Hosts: *Erethizon dorsatum* (2)
Microtus pennsylvanicus (1)
Ondatra zibethicus (3)
Dist.: Man, NB, Ont
Records: 1. Farley 1962 (Man); 2. Choquette, Broughton et al. 1973 (Ont); 3. MacKinnon and Burt 1978 (NB)

Schistosomatium douthitti ova
Sites: liver, blood vessels
Hosts: *Erethizon dorsatum* (1)
Ondatra zibethicus (2)
Dist.: Man, Ont
Records: 1. Choquette, Broughton et al. 1973 (Ont); 2. McKenzie and Welch 1979 (Man)

Schistosomatium douthitti (Cort, 1914) Price, 1929 (immature)
Site: spleen
Host: *Ondatra zibethicus*
Dist.: Man
Record: McKenzie and Welch 1979

FAMILY TROGLOTREMATIDAE

Nanophyetus salmincola (Chapin, 1926) Chapin, 1927
Site: small intestine
Host: *Mustela vison*
Dist.: Ont
Record: Anonymous 1930

Paragonimus kellicotti Ward, 1908
Sites: bronchi, bronchioles
Hosts: *Canis latrans* (2,3)
Mephitis mephitis (2,3)
Mustela vison (2,3)
Vulpes vulpes (2,3)
Mink (1)
Dist.: Ont
Record: 1. Fyvie 1966; 2. Presidente and Ramsden 1975b; 3. Ramsden and Presidente 1975

Paragonimus spp.
Site: intestine
Hosts: *Mustela vison* (1)
Mink (2)
Dist.: Can, Ont
Records: 1. Swales 1933b (Ont); 2. Cameron 1937b (Can)

Digenea gen. spp. metacercariae
Site: liver
Host: *Peromyscus maniculatus*
Dist.: Que
Record: Schad 1956

CLASS CESTOIDEA
SUBCLASS EUCESTODA
ORDER CYCLOPHYLLIDEA

FAMILY ANOPLOCEPHALIDAE

Andrya arctica Rausch, 1952
Site: intestine
Hosts: *Dicrostonyx groenlandicus richardsoni* (1)
D. torquatus (3)
Synaptomys borealis (2)
Dist.: Alta, Man, NWT
Records: 1. Rausch 1952a (Man); 2. Lubinsky 1957 (Alta); 3. Webster 1974 (NWT)

Andrya bairdi Schad, 1954
Site: small intestine
Host: *Microtus chrotorrhinus*
Dist.: Nfld, Que
Record: Schad 1954

Andrya communis Douthitt, 1915
Site: intestine
Hosts: *Clethrionomys gapperi*
Microtus pennsylvanicus
Phenacomys intermedius
Dist.: Alta
Record: Lubinsky 1957

Andrya macrocephala Douthitt, 1915
Site: small intestine
Hosts: *Clethrionomys gapperi* (1,2)
Microtus chrotorrhinus (1,2)
M. ochrogaster (2)
M. pennsylvanicus (1,2)
Ondatra zibethicus (3)
Dist.: Alta, NB, Nfld, Que
Records: 1. Schad 1954 (Nfld, Que); 2. Lubinsky 1957 (Alta); 3. MacKinnon and Burt 1978 (NB)

Andrya neotomae Voge, 1946
Site: intestine
Host: *Neotoma cinerea*
Dist.: Alta
Record: Lubinsky 1957

Andrya primordialis Douthitt, 1915
Site: small intestine
Host: *Tamiasciurus hudsonicus*
Dist.: Alta, Sask
Records: Mahrt and Chai 1972 (Alta); McGee 1980 (Sask)

Andrya sciuri Rausch, 1947
Site: intestine
Host: *Glaucomys sabrinus*
Dist.: Sask
Record: McGee 1980

Andrya sp.
Site: intestine
Host: *Clethrionomys gapperi*
Dist.: Lab, Que
Record: Schad 1954

Atriotaenia procyonis (Chandler, 1942) Spassky, 1951
Site: intestine
Hosts: *Procyon lotor hirtus*
Dist.: Sask
Record: Hoberg and McGee 1982
Remarks: Hoberg and McGee (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.

Avitellina arctica Kolmakov, 1938
Site: intestine
Host: *Rangifer tarandus*
Dist.: NWT
Record: Gibbs 1959

Avitellina spp.
Site: small intestine
Hosts: *Oreamnos americanus* (2)
Rangifer tarandus (1)
Dist.: Alta, NWT
Records: 1. Gibbs 1960 (NWT?); 2. Samuel, Hall et al. 1978 (Alta)

Cittotaenia pectinata Goeze, 1782
Site: intestine
Host: *Lepus americanus struthopus*
Dist.: Nfld
Record: Dodds and Mackiewicz 1961

Cittotaenia pectinata americana Stiles and Hassel, 1896
Site: small intestine
Host: *Lepus americanus*
Dist.: Man
Record: Boughton 1932

Diandrya vancouverensis Mace and Shepard, 1981
Site: small intestine
Host: *Marmota vancouverensis*
Dist.: BC
Record: Mace and Shepard 1981

Moniezia benedini (Moniez, 1879) Blanchard, 1891
Site: intestine
Hosts: *Alces alces* (3)
Cervus elaphus (4)
Odocoileus hemionus columbianus (2,3)
O. h. hemionus (3)
Oreamnos americanus (1,3,5)
Ovis canadensis (1)
O. c. canadensis (3)
Dist.: Alta, BC
Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC); 4. Flook and Stenton 1969 (Alta); 5. Samuel, Hall et al. 1978 (Alta)

Moniezia expansa (Rudolphi, 1810) Blanchard, 1891
Site: intestine
Hosts: *Ovibos moschatus* (2,3,5)
Ovis canadensis canadensis (4)
Rangifer tarandus (1)
Dist.: Alta, NWT, Sask
Records: 1. Erickson and Highby 1942 (Sask); 2. Durrell and Bolton 1957 (NWT); 3. Gibbs and Tener 1958 (NWT); 4. Samuel, Hall et al. 1978 (Alta); 5. Webster and Rowell 1980 (NWT)

Moniezia spp.
Site: small intestine
Hosts: *Alces alces* (6)
A. a. andersoni (3)
Bison bison (1)
Ovibos moschatus (4)
Rangifer tarandus (2)
R. t. caribou (5)
Dist.: Alta, BC, NWT
Records: 1. Cameron 1923 (Alta); 2. Gibbs 1960 (NWT?); 3. Barrett 1972 (Alta); 4. Samuel and Gray 1974 (NWT, Alta capt.); 5. Low 1976 (BC); 6.Samuel et al. 1976 (Alta)
Remarks: This parasite was identified by Low (1976) as probably being *Moniezia expansa*. This parasite was reported by Cameron (1923) as "...species not identified, but probably *planissima*."

Oochoristica oklahomensis Peery, 1939
Site: intestine
Host: *Mephitis mephitis*
Dist.: Que
Record: Choquette 1951

Paranoplocephala infrequens (Douthitt, 1915) Baer, 1927
Sites: caecum, small intestine
Hosts: *Microtus pennsylvanicus* (1,2)
Synaptomys borealis (1)
Dist.: Alta, Lab, Que
Records: 1. Schad 1954 (Lab, Que); 2. Lubinsky 1957 (Alta)

Paranoplocephala lemmi Rausch, 1952
Site: caecum
Host: *Lemmus t. trimucronatus*
Dist.: NWT
Record: Rausch 1952b

Paranoplocephala variabilis (Douthitt, 1915) Hansen, 1947
Sites: colon, small intestine
Hosts: *Dicrostonyx hudsonius* (1)
Microtus pennsylvanicus (1,2)
Phenacomys intermedius (2)
Thomomys talpoides (2)
Dist.: Alta, Nfld, Que
Records: 1. Schad 1954 (Nfld, Que); 2. Lubinsky 1957 (Alta)

Schizorchis caballeroi Rausch, 1960
Site: small intestine
Hosts: *Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs 1980

Schizorchis ochotonae Hansen, 1948
Site: small intestine
Host: *Ochotona princeps*
Dist.: Alta
Record: Lubinsky 1957

Thysanosoma actinioides Diesing, 1834
Sites: duodenum, jejunum
Hosts: *Alces alces* (7,9)
A. a. andersoni (6)
Cervus elaphus (1,3,5,9)
Odocoileus hemionus columbianus (2,3)
O. h. hemionus (3 BC)
Oreamnos americanus (1,3,4,8)
Ovis c. canadensis (3)
Dist.: Alta, BC
Records: 1.Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC); 4. Kerr and Holmes 1966 (Alta); 5. Flook and Stenton 1969 (Alta, BC); 6. Barrett 1972 (Alta); 7. Samuel et al. 1976 (Alta); 8. Samuel, Hall et al. 1978 (Alta, BC); 9. Stock and Barrett 1983 (Alta)

Wyominia tetoni Scott, 1941
Sites: bile duct, hepatic ducts
Host: Ovis dalli
Dist.: YT
Record: Gibbs and Fuller 1959

Anoplocephalidae gen. sp.
Site: intestine
Hosts: *Ondatra zibethicus obscurus* (2)
Oreamnos americanus (1)
Dist.: Alta, BC, Nfld
Records: 1. Samuel, Hall et al. 1978 (Alta, BC); 2. Rigby and Threlfall 1981 (Nfld)

FAMILY CATENOTAENIIDAE

Catenotaenia dendritica (Goeze, 1782) Janicki, 1904
Site: small intestine
Host: *Clethrionomys gapperi*
Dist.: Alta, Nfld, Que
Records: Schad 1954 (Nfld, Que); Lubinsky 1957 (Alta)

FAMILY DILEPIDIDAE

Choanotaenia nebraskensis Hansen, 1950
Site: small intestine
Host: *Mus musculus*
Dist.: Alta
Record: Lubinsky 1957

Choanotaenia peromysci (Erickson, 1938)
Site: small intestine
Host: *Peromyscus maniculatus*
Dist.: Alta
Record: Lubinsky 1957

Choanotaenia spermophili (McLeod, 1933)
Syn: *Prochoanotaenia spermophili* McLeod, 1933
Site: intestine
Hosts: *Spermophilus franklinii* (1,2)
S. richardsonii (1,2)
Dist.: Man, Sask
Records: 1. McLeod 1933 (Man); 2. McGee 1980 (Sask)

Choanotaenia sp.
Site: small intestine
Host: *Zapus hudsonius*
Dist.: Alta
Record: Lubinsky 1957

Dipylidium caninum (Linnaeus, 1758) Leuckart, 1863
Site: intestine
Hosts: *Vulpes vulpes*
Dist.: Que
Record: Swales 1933b

Paruterina candelabraria (Goeze, 1782) (plerocercoids)
Site: liver
Hosts: *Microtus pennsylvanicus* (1)
Peromyscus maniculatus (1)
Tamiasciurus hudsonicus (2,3)
Dist.: Alta, Man, Sask
Records: 1. Baron 1971 (Man); 2. Mahrt and Chai 1972 (Alta); 3. McGee 1980 (Sask)

Paruterina rauschi Freeman, 1957 (metacestode)
Site: liver
Hosts: *Clethrionomys gapperi*
Peromyscus maniculatus
Dist.: Ont
Record: Freeman and Wright 1960
Remarks: Freeman and Wright (1960) did not specify the site in which their metacestodes were found, but presumably it was the liver.

FAMILY HYMENOLEPIDIDAE

Hymenolepis bennetti Freeman, 1960
Site: small intestine
Hosts: *Napaeozapus i. insignis*
Peromyscus maniculatus gracilis
Dist.: Ont
Record: Freeman 1960

Hymenolepis citelli (McLeod, 1933)
Syn.: *Weinlandia citelli* (McLeod, 1933)
Site: intestine, stomach
Hosts: *Spermophilus franklinii*
S. richardsonii
S. tridecemlineatus
Dist.: Man, Sask
Records: McLeod 1933 (Man); McGee 1980 (Sask)

Hymenolepis diminuta Rudolphi, 1819
Site: small intestine
Hosts: *Rattus norvegicus* (1)
Spermophilus richardsonii (2)
Dist.: Alta, Que
Records: 1. Firlotte 1948 (Que); 2. Lubinsky 1957 (Alta)

Hymenolepis evaginata (Barker and Andrews, 1915)
Site: intestine
Hosts: *Ondatra zibethicus* (1,2,3,4,5,6)
O. z. obscurus (7)
Dist.: Alta, BC, NB, Nfld, Ont
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Knight 1951 (BC); 4. Sweatman 1952b (Ont); 5. Lubinsky 1957 (Alta); 6. MacKinnon and Burt 1978 (NB); 7. Rigby and Threlfall 1981 (Nfld)

Hymenolepis gertschi Macy, 1947
Site: digestive tract
Host: *Eptesicus fuscus*
Dist.: BC
Record: Webster and Casey 1973

Hymenolepis horrida von Linstow, 1901
Site: small intestine
Hosts: *Clethrionomys gapperi* (1,2,3)
Microtus chrotorrhinus (1)
M. pennsylvanicus (3)
Tamiasciurus hudsonicus (4)
Dist.: Alta, Nfld, Que
Records: 1. Schiller 1952 (Que); 2. Schad 1954 (Nfld, Que); 3. Lubinsky 1957 (Alta); 4. Mahrt and Chai 1972 (Alta)

Hymenolepis johnsoni Schiller, 1952
Site: intestine
Host: *Microtus pennsylvanicus drummondi*
Dist.: NWT
Record: Rausch 1952
Remarks: Rausch (1952) did not specify the site in which this specimen was found, but presumably it was the intestine.

Hymenolepis murinae (Meggitt, 1927)
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Hymenolepis octocoronata (von Linstow) Fuhrmann, 1924
Site: small intestine
Host: *Ondatra zibethicus*
Dist.: BC
Record: Knight 1951

Hymenolepis spp.
Site: small intestine
Hosts: *Eutamias minimus* (4)
Myotis lucifugus (2)
Ondatra zibethicus (1,3)
Dist.: Alta, BC, Man, Sask
Records: 1. Swales 1933b (Alta); 2. Webster and Casey 1973 (BC); 3. McKenzie and Welch 1979 (Man); 4. McGee 1980 (Sask)

Unidentified Hymenolepididae

Hymenolepididae gen. sp.
Site: not specified
Hosts: *Rattus norvegicus*
Dist.: Nfld
Record: Smith and Threlfall 1973

FAMILY MESOCESTOIDIDAE

Mesocestoides kirbyi Chandler, 1944
Site: intestine
Hosts: *Canis latrans* (1)
C. lupus (2)
Dist.: Alta, YT
Records: 1. Holmes and Podesta 1968 (Alta); 2. Choquette, Gibson et al. 1973 (YT)

Mesocestoides latus Mueller, 1928
Site: intestine
Host: *Mephitis mephitis*
Dist.: Que
Records: Choquette 1951; Webster and Wolfgang 1956

Mesocestoides spp.
Site: intestine
Hosts: *Canis latrans* (3)
Martes americana (2)
Mustela vison (2)
Vulpes vulpes (4)
Zapus hudsonius (1)
Dist.: Nfld, Ont, Que
Records: 1. Schad 1954 (Nfld, Que); 2. Freeman 1956 (Ont); 3. Freeman et al. 1961 (Ont); 4. Freeman 1962 (Ont)

FAMILY TAENIIDAE

Cladotaenia circi Yamaguti, 1935 (cysticercoid)
Site: liver
Host: *Spermophilus tridecemlineatus*
Dist.: Sask
Record: McGee 1980

Cladotaenia globifera (Batsch, 1786) (metacestode)
Site: liver
Hosts: *Clethrionomys gapperi* (1)
Glaucomys sabrinus (3)
Microtus pennsylvanicus (2)
Peromyscus maniculatus (1)
Dist.: Man, Ont, Sask
Records: 1. Freeman and Wright 1960 (Ont); 2. Baron 1971 (Man); 3. McGee 1980 (Sask)

Cladotaenia mirsoevi Skrjabin and Popoff, 1924
Site: ileum
Hosts: *Clethrionomys gapperi*
Clethrionomys sp.
Dist.: Alta
Record: Lubinsky 1957

Cladotaenia spp. cysticercus
Site: liver
Hosts: *Ondatra zibethicus* (1)
Tamiasciurus hudsonicus (2)
Dist.: Alta, BC
Records: 1. Knight 1951 (BC); 2. Mahrt and Chai 1972 (Alta)

Cysticercus fasciolaris Batsch, 1786
Site: liver cysts
Hosts: *Ondatra zibethicus* (2,3)
Rattus norvegicus (1)
Dist.: BC, Ont, Que
Records: 1. Firlotte 1948 (Que); 2. Knight 1951 (BC); 3. Sweatman 1952b (Ont)

Cysticercus ovis Cobbold, 1869
Site: muscle cysts
Host: *Odocoileus hemionus columbianus*
Dist.: BC
Record: Cowan 1946

Cysticercus pisiformis Block, 1780
Site: intestine cysts
Hosts: Cottontail rabbit (2)
Lab. rabbit (3)
Rabbit (1)
Varying hare (2)
Dist.: Ont
Records: 1. Law 1933b; 2. Fyvie 1966; 3. Barker 1970 exp.

Cysticercus talpae Rudolphi, 1819
Site: liver cysts
Hosts: *Ondatra zibethicus*
Dist.: Ont
Record: Skinker 1935

Cysticercus tarandi Moniez, 1789
Site: muscle cysts
Hosts: *Rangifer tarandus* (1)
Moose (2)
Dist.: NWT, Ont
Records: 1. Gibbs 1960 (NWT?); 2. Fyvie 1966 (Ont)

Cysticercus tenuicollis Pallas, 1766
Site: liver cysts
Hosts: *Alces alces* (1,2,6,10)
Cervus elaphus (5,6,10)
Odocoileus hemionus (5,9)
O. h. columbianus (5,6)
O. h. hemionus (6)
O. virgianus ochrourus (6)
Oreamnos americanus (4,6)
Ovibos moschatus (7)
Ovis canadensis (4)
O. c. canadensis (6)
Rangifer tarandus (6,9)
R. t. terraenovae (1)
Deer (10)
Dist.: Alta, BC, Nfld, NWT, Ont
Records: 1. Dikmans 1932 (Nfld); 2. Hadwen 1932 (Alta); 3. Gregson 1937 (BC); 4. Cowan 1944 (Alta), 5. 1946 (BC), 6. 1951 (Alta, BC); 7. Gibbs and Tener 1958 (NWT); 8. Ritcey and Edwards 1958 (BC); 9. Gibbs 1960 (NWT?); 10. Fyvie 1966 (Ont); 11. Threlfall 1969 (Nfld)

Cysticercus spp. cyst
Sites: cysts in muscle and body cavity
Hosts: *Alces alces* (2,3,4,5)
Odocoileus hemionus columbianus (1)
Rangifer tarandus (1)
Dist.: Alta, BC, NS, Ont, Sask, YT
Records: 1. Cowan 1951 (Alta, BC); 2. Peterson 1955 (Ont); 3. Benson 1958 (NS); 4. Ritcey and Edwards 1958 (BC); 5. Sweatman and Henshall 1962 (Ont, Sask, YT)

Echinococcus granulosus (Batsch, 1786) Rudolphi, 1801
Site: intestine
Hosts: *Canis latrans* (1,3,4,5,6,8)
C. lupus (1,2,3,4,5,6,7,8,9)
Martes pennanti (3)
Dist.: Alta, Man, NWT, Ont, Que, YT
Records: 1. Cowan 1948 (Alta); 2. DeVos and Allin 1949 (Ont); 3. Sweatman 1952a (Ont); 4. Freeman et al. 1961 (Ont); 5. Holmes 1961 (Alta); 6. Holmes and Podesta 1968 (Alta); 7. Choquette, Gibson et al. 1973 (NWT, YT); 8. Samuel, Ramalingam and Carbyn 1978 (Man); 9. McNeill et al. 1984 (Que)

Echinococcus granulosus (Batsch, 1786) Rudolphi, 1801
(hydatid cyst)
Sites: cysts in lungs and liver
Hosts: *Alces alces* (1,5,7,8,10,11,13,15,16,19, 20,21,22,24,25,26,27,28,29)
A. a. andersoni (23)
Bison bison (20)
Cervus elaphus (2,4,6,7,19,20,23)
Odocoileus hemionus columbianus (3,7)
O. h. hemionus (4,7)
O. virginianus (8,10,18,20)
Ovibos moschatus (14)
Rangifer tarandus (10,12, 15 NWT,17,20)
R. t. groenlandicus (9)
Rangifer sp. (20)
Deer (21)
Dist.: Alta, BC, Man, NS, NWT, Ont, Que, Sask, YT
Records: l. Hadwen 1932 (Man); 2. Cowan 1944 (Alta), 3. 1946 (BC), 4. 1948 (Alta); 5. DeVos and Allin 1949 (Ont); 6. Green 1949 (Alta); 7. Cowan 1951 (Alta, BC); 8. Sweatman 1952a (Ont); 9. Banfield 1954 (Man); 10. Harper et al. 1955 (Sask, NWT); 11. Peterson 1955 (Ont); 12. Choquette et al. 1957 (NWT); 13. Benson 1958 (NS); 14. Gibbs and Tener 1958 (NWT); 15. Lubinsky 1958 (Alta, NWT); 16. Ritcey and Edwards 1958 (BC); 17. Gibbs 1960 (NWT?); 18. Anderson 1962b (Ont); 19. Stelfox 1962 (Alta); 20. Sweatman and Williams 1963 (Alta, NWT, Ont, Sask, YT); 21. Fyvie 1966 (Ont); 22. Flook and Stenton 1969 (Alta); 23. Barrett 1972 (Alta); 24. Samuel 1972b (Alta); 25. Samuel et al. 1976 (Alta); 26. Addison et al. 1979 (Ont); 27. Crichton 1979 (Man); 28. Rau and Caron 1979 (Que); 29. Crichton 1980 (Man)
Remarks: Benson (1958) assumed the cysts in the liver were hydatid cysts.

Echinococcus granulosus (Batsch, 1786) Rudolphi, 1801
(Lebanon strain)
Site: liver cysts
Hosts: *Mus musculus* lab.
Sigmodon hispidus
Dist.: Que
Record: Webster and Cameron 1961 exp.

Echinococcus granulosus canadensis
Site: liver cysts
Hosts: Lab. mice
A.K.R. mice
Dist.: Que
Record: Webster and Cameron 1961 exp.

Echinococcus multilocularis Leuckart, 1863
Site: intestine
Hosts: *Alopex lagopus* (1,5)
Canis latrans (4)
Vulpes vulpes (2,3,4)
Dist.: Man, NWT, Sask
Records: 1. Choquette et al. 1962 (NWT); 2. Hnatiuk 1969 (Sask); 3. Baron 1970 (Man); 4. Samuel, Ramalingam et al. 1978 (Man); 5. Eaton and Secord 1979 (NWT)

Echinococcus multilocularis Leuckar, 1863
(hydatid cyst)
Sites: liver, peritoneum, subcutaneous
Hosts: *Meriones unguiculatus* (7)
Microtus pennsylvanicus (1)
Peromyscus maniculatus (2,3,4,8)
Sigmodon hispidus (5,6,7)
A/J lab. mice (7)
Dist.: Alta, Man, Que, Sask
Records: 1. Hnatiuk 1966 (Sask); 2. Lee 1969 (Man); 3. Leiby et al. 1969 (Man); 4. Holmes et al. 1971 (Alta); 5. Rau and Tanner 1972 exp. (Que); 6. Rau and Tanner 1973 exp. (Que); 7. Baron et al. 1974 exp. (Que); 8. Chalmers and Barrett 1974 (Alta)

Echinococcus multilocularis sibiricensis Vogel, 1955
Syn.: *Echinococcus sibiricensis* Rausch and Schiller, 1954
Site: liver cysts
Hosts: *Meriones unguiculatus*
Mus musculus lab.
Ondatra zibethicus
Sigmodon hispidus
Lab. mice
Lab. rats
Dist.: Que
Record: Webster and Cameron 1961 exp.

Echinococcus sp.
Site: liver
Host: *Bison bison*
Dist.: Alta
Records: Cameron 1923

Multiceps sp.
Site: intestine
Host: *Lynx canadensis*
Dist.: Alta, NWT
Record: Zyll de Jong 1966

Multiceps sp. cyst
Site: skeletal muscle cysts
Host: *Lepus americanus struthopus*
Dist.: Nfld
Record: Dodds and Mackiewicz 1961
Remarks: Dodds and Mackiewicz (1961) did not specify the site in which the cysts were found, but presumably they were in skeletal muscle.

Taenia crassiceps (Zeder, 1800) Rudolphi, 1810
Site: small intestine
Hosts: *Alopex lagopus* (6)
Canis lupus (1,4)
Vulpes vulpes (2,3,4,5)
Vulpes sp. (1)
Coyote x Dog (1)
Dist.: Man, NB, NS, NWT, Ont
Records: 1. Freeman et al. 1961 (Ont); 2. Freeman 1962 (Ont); 3. Baron 1970 (Man); 4. Samuel, Ramalingam et al. 1978 (Man); 5. Smith 1978b (NB, NS); 6. Eaton and Secord 1979 (NWT)

Taenia crassiceps (Zeder, 1800) Rudolphi, 1810 (Cysticercus)
Sites: Subcutaneous tissue, thoracic and abdominal cavities
Hosts: *Dicrostonyx groenlandicus richardsoni* (1)
D. torquatus (4)
Marmota monax (2)
Microtus pennsylvanicus (2)
M. p. drummondii (3)
Ondatra zibethicus (2)
Peromyscus maniculatus (2 exp.)
Sciurus carolinensis (2 exp.)
Tamias striatus (2)
Tamiasciurus hudsonicus (2 exp.)
Cotton rat (3 exp.)
Gerbil (3 exp.)
Lab. mouse (3 exp.)
White mice (2 exp.)
Dist.: Man, NWT, Ont
Records: 1. Rausch 1952b (Man); 2. Freeman 1962 (Ont); 3. Lubinsky and Baron 1970 (Man); 4. Webster 1974 (NWT)

Taenia hydatigena Pallas, 1766
Site: intestine
Hosts: *Canis latrans* (4,5,8)
C. lupus (2,3,4,5,6,8,9,10)
Felis concolor (2)
F. c. vancouverensis (1)
Ursus americanus (7,9)
Dist.: Alta, BC, Man, NWT, Ont, Que, YT
Records: 1. Cowan 1942 (BC), 2. 1944 (Alta); 3. Sweatman and Plummer 1957 exp. (Ont); 4. Freeman et al. 1961 (Ont); 5. Holmes and Podesta 1968 (Alta); 6. Choquette, Gibson et al. 1973 (NWT, YT); 7. Frechette and Rau 1977 (Que); 8. Samuel, Ramalingam and Carbyn 1978 (Man); 9. Dies 1979 (Alta); 10. McNeill et al. 1984 (Que)

Taenia hydatigena Pallas, 1766 (Cysticercus)
Site: liver
Hosts: *Alces alces* (3,5,9,11,15)
A. a. andersoni (7)
Cervus elaphus (5,15)
Odocoileus virginianus (4)
Odocoileus sp. (3)
Oreamnos americanus (6,10)
Ovibos moschatus (8,14)
Ovis canadensis canadensis (10)
Rangifer tarandus (2, 3)
R. t. groenlandicus (1)
Deer (5)
Moose (12,13)
Dist.: Alta, BC, Man, NWT, Ont, Que, Sask
Records: 1. Banfield 1954 (not specified); 2. Choquette et al. 1957 (NWT); 3. Sweatman and Plummer 1957 (Alta, BC, NWT, Ont, Que, Sask); 4. Anderson 1962b (Ont); 5. Stelfox 1962 (Alta); 6. Kerr and Holmes 1966 (Alta); 7. Barrett 1972 (Alta); 8. Samuel 1972b (Alta); 9. Samuel et al. 1976 (Alta); 10. Samuel, Hall et al. 1978 (Alta); 11. Addison et al. 1979 (Ont); 12. Crichton 1979 (Man), 13. 1980 (Man); 14. Webster and Rowell 1980 (NWT); 15. Stock and Barrett 1983 (Alta)

Taenia krabbei Moniez, 1879
Site: intestine
Hosts: *Canis latrans* (2)
C. lupus (1,2,4)
Ursus americanus (6,5,7)
U. arctos (3)
Dist.: Alta, NWT, Ont, Que, YT
Records: 1. Freeman et al. 1961 (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Choquette et al. 1969 (NWT, YT?); 4. Choquette et al. 1973 (NWT, YT); 5. Frechette and Rau 1977 (Que); 6. Addison et al. 1978 (Ont); 7. Dies 1979 (Alta)

Taenia krabbei Moniez, 1879
(cysticercus)
Sites: cardiac muscle, skeletal muscle
Hosts: *Alces alces* (4,6,7,9,10,11,12)
A. a. andersoni (8)
Rangifer tarandus (1,2,5)
R. t. groenlandicus (3,7)
Moose (13)
Dist.: Alta, Man, NWT, Ont, Que, Sask, YT
Records: 1. Erickson and Highby 1942 (Sask); 2. Cowan 1944 (Alta); 3. Banfield 1954 (not specified); 4. Peterson 1955 (Que); 5. Choquette et al. 1957 (NWT); 6. Stelfox 1962 (Alta); 7. Sweatman and Henshall 1962 (NWT, Ont, Sask, YT); 8. Barrett 1972 (Alta); 9. Samuel 1972a (Alta), 10. 1972b (Alta); 11. Samuel et al. 1976 (Alta); 12. Addison et al. 1979 (Ont); 13. Crichton 1979 (Man)

Taenia laticollis Rudolphi, 1819
Site: intestine
Hosts: *Canis latrans* (1)
C. lupus (1)
Lynx canadensis (2,3,4)
L. rufus (2)
Dist.: Alta, BC, Nfld, NWT, Ont
Records: 1. Freeman et al. 1961 (Ont); 2. Adams 1964 (BC); 3. Zyll de Jong 1966 (Alta, NWT); 4. Threlfall 1969 (Nfld)

Taenia macrocystis (Diesing, 1850) Lühe, 1910
Site: small intestine
Hosts: *Lynx canadensis*
L. rufus
Dist.: NB, Nfld, NS
Record: Bursey and Burt 1970

Taenia macrocystis (Diesing, 1850) Lühe, 1910
(metacestode)
Site: unspecified
Host: *Lepus americanus* (1)
Dist.: NB, NS
Record: Bursey and Burt 1970

Taenia martis (Zeder, 1803) Wahl, 1967
Site: digestive tract
Hosts: *Gulo gulo* (3)
Martes americana (1)
M. a. actuosa (2)
Dist.: NWT, Ont
Records: 1. Freeman 1956 (Ont); 2. Holmes 1963 (NWT); 3. Addison and Boles 1978 (NWT)

Taenia multiceps Leske, 1780
Syn: *Multiceps multiceps* (Leske, 1780) Hall, 1919
Site: intestine
Hosts: *Canis latrans*
C. lupus
Dist.: Alta
Record: Holmes and Podesta 1968

Taenia mustelae Gmelin, 1790
Syn.: *Taenia tenuicollis* Rudolphi, 1819
Site: intestine
Hosts: *Martes americana* (5)
M. a. actuosa (3)
Mustela erminea (2,4)
M. putorius (2 exp.)
M. vison (1,2 exp.,4)
Dist.: Man, Nfld, NWT, Ont
Records: 1. Skinker 1935 (Ont); 2. Freeman 1956 (Ont); 3. Holmes 1963 (NWT); 4. Jennings et al. 1982 (Nfld); 5. Poole et al.1983 (Man)
Remarks: Verster (1969) noted that *T. tenuicollis* is a synonym of *T. mustelae*.

Taenia mustelae Gmelin, 1790
(metacestode)
Syn.: *Taenia tenuicollis* Rudolphi, 1819
Sites: liver, lungs, kidneys, mesenteries
Hosts: *Clethrionomys gapperi* (1,3,5,6)
Eutamias minimus (3,7)
Marmota monax (3)
Microtus ochrogaster (5)
M. pennsylvanicus (1,3,5)
Mus musculus (3 exp.)
Mustela putorius (3 exp.)
M. vison (3 exp.)
Ondatra zibethicus (3,3 exp.,6)
Peromyscus leucopus (4)
P. maniculatus (1,2,3,6)
Spermophilus franklinii (7)
S. tridecemlineatus (7)
Synaptomys borealis (1)
Tamias striatus (3)
Tamiasciurus hudsonicus (3 exp.,7)
Thomomys talpoides (5)
Zapus hudsonius (3)
Dist.: Alta, NB, Nfld, NWT, Ont, Que, Sask
Records: 1. Schad 1954 (Nfld, Que), 2. 1956 (Que); 3. Freeman 1956 (Ont); 4. Gibbs 1957 (NWT); 5. Lubinsky 1957 (Alta); 6. Freeman and Wright 1960 (Ont); 7. MacKinnon and Burt 1978 (NB); 8. Mahrt and Chai 1972 (Alta); 9. McGee 1980 (Sask)
Remarks: Verster (1969) noted that *T. tenuicollis* is a synonym of *T. mustelae*.

Taenia omissa Lühe, 1910
Site: digestive tract
Hosts: *Canis lupus*
Felis concolor
Dist.: Alta, BC
Record: Holmes and Podesta 1968

Taenia ovis (Cobbold, 1869) Ransom, 1913 (cysticercus)
Site: muscle
Host: *Rangifer tarandus groenlandicus*
Dist.: NWT
Record: Banfield 1954

Taenia ovis / *T. krabbei* Moniez, 1879 (cysticercus)
Site: muscle
Hosts: *Alces alces*
Odocoileus hemionus columbianus
Rangifer tarandus
Dist.: Alta, BC
Record: Cowan 1951

Taenia pisiformis (Bloch, 1780) Gmelin, 1790
Site: intestine
Hosts: *Canis latrans* (2,5,7)
C. lupus (1,2,5,6)
Lynx canadensis (4)
Vulpes vulpes (3)
Coyote x Dog (2)
Dist.: Alta, Man, NWT, Ont
Records: 1. Law and Kennedy 1932 (Ont); 2. Freeman et al. 1961 (Ont); 3. Freeman 1962 (Ont); 4. Zyll de Jong 1966 (Alta, NWT); 5. Holmes and Podesta 1968 (Alta); 6. Choquette et al. 1973 (NWT); 7. Samuel, Ramalingam et al. 1978 (Man)

Taenia pisiformis (Bloch, 1780) Gmelin, 1790 (cysticerci)
Sites: abdominal cavity, liver, skeletal muscle
Hosts: *Lepus americanus* (1,2,4,5)
L. a. struthopus (3)
Dist.: Alta, Man, Nfld
Records: 1. Boughton 1932 (Man); 2. Lubinsky 1957 (Alta); 3. Dodds and Mackiewicz 1961 (Nfld); 4. Smith and Threlfall 1973 (Nfld); 5. Keith et al. 1985 (Alta)

Taenia polyacantha Leukart, 1856
Site: intestine
Host: *Alopex lagopus*
Dist.: NWT
Record: Webster 1974

Taenia rileyi Loewen, 1929
Site: intestine
Hosts: *Lynx canadensis* (1,2)
L. rufus (1)
Dist.: Alta, BC, NWT
Records: 1. Adams 1964 (BC); 2. Zyll de Jong 1966 (Alta, NWT)
Remarks: The records of Adams (1964) involved a tentative parasite identification. The parasite's distinction from *Taenia omissa* was uncertain.

Taenia rileyi Loewen, 1929 (cyticerci)
Site: unspecified
Host: *Tamiasciurus hudsonicus*
Dist.: Alta
Record: Mahrt and Chai 1972

Taenia serialis (Gervais, 1847) Baillet, 1863
Site: intestine
Host: *Canis lupus*
Dist.: NWT, YT
Record: Choquette et al. 1973

Taenia serialis (Gervais, 1847) Baillet, 1863 (coenurus)
Syn.: *Multiceps serialis* (Gervais, 1847) Stiles and Stevenson, 1905
Site: body cavity, connective tissue, liver
Hosts: *Lepus americanus* (1,5)
L. a. pallidus (2)
Varying hare (3,4)
Dist.: Alta, BC, Man, Nfld, Ont
Records: 1. Boughton 1932 (Man); 2. Cowan 1942 (BC); 3. Freeman et al. 1961 (Ont); 4. Fyvie 1966 (Ont); 5. Smith and Threlfall 1973 (Nfld); 6. Keith et al. 1985 (Alta)

Taenia sibirica Dubnitzky, 1952
Site: intestine
Host: *Martes pennanti*
Dist.: Man
Record: Dick and Leonard 1979

Taenia taeniaeformis (Batsch, 1786) Wolffügel, 1911
Site: digestive tract
Hosts: *Canis lupus* (2)
Felis concolor vancouverensis (1)
Lynx rufus fasciatus (1)
Dist.: Alta, BC
Records: 1. Cowan 1942 (BC); 2. Holmes and Podesta 1968 (Alta)

Taenia taeniaeformis (Batsch, 1786) Wolffügel, 1911
(cysticercus)
Site: liver
Hosts: *Lepus americanus struthopus* (5)
Mus musculus (4)
Ondatra zibethicus (1,2,7)
O. z. osoyoosensis (3)
Rattus norvegicus (6)
Dist.: Alta, BC, Man, Nfld, Ont
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Knight 1951 (BC); 4. Lubinsky 1957 (Alta); 5. Dodds and Mackiewicz 1961 (Nfld); 6. Smith and Threlfall 1973 (Nfld); 7. McKenzie and Welch 1979 (Man)

Taenia taxidiensis Skinker, 1935
(cysticerus)
Site: musculature of rear legs
Host: *Spermophilus franklinii*
Dist.: Sask
Record: McGee 1980

Taenia twitchelli Schwartz, 1924
Site: digestive tract
Hosts: *Canis latrans* (1)
Gulo gulo (2)
Dist.: Alta, NWT
Records: 1. Holmes and Podesta 1968 (Alta); 2. Addison and Boles 1978 (NWT)

Unidentified *Taenia* spp.
Sites: digestive tract, small intestine
Hosts: *Canis latrans* (7)
Canis lupus (2,6,7,9)
Lynx canadensis (5)
Martes americana (4,8)
Mustela vison (1)
Vulpes vulpes (3,7)
Dist.: Alta, Man, NWT, Ont, Que, YT
Records: 1. Law and Kennedy 1932 (Ont); 2. DeVos and Allin 1949 (Ont); 3. Freeman 1962 (Ont); 4. Holmes 1963 (NWT); 5. Zyll de Jong 1966 (Alta, NWT); 6. Choquette et al. 1973 (NWT, YT); 7. Samuel, Ramalingam and Carbyn 1978 (Man); 8. Poole et al. 1983 (Man); 9. McNeill et al. 1984 (Que)

Taenia spp. metacestode
Sites: myocardium, peritoneal cavity
Hosts: *Alces alces* (2)
Microtus pennsylvanicus drummondi (3)
Ondatra zibethicus (1)
Dist.: Man, Ont
Records: 1. Anonymous 1930 (Ont); 2. DeVos and Allin 1949 (Ont); 3. Rausch and Tiner 1949 (Man)

Unidentified Taeniid ova
Site: intestine
Host: *Ursus americanus*
Dist.: Que
Record: Frechette and Rau 1977
Remarks: Frechette and Rau (1977) believed their material was probably *T. krabbei* and/or *T. hydatigena*.

ORDER PSEUDOPHYLLIDEA

FAMILY DIPHYLLOBOTHRIIDAE

Diphyllobothrium cordatum Leuckart, 1863
Site: intestine
Host: *Vulpes vulpes*
Dist.: Ont
Record: Law and Kennedy 1932 (Ont)

Diphyllobothrium latum Linnaeus, 1758
Site: intestine
Host: *Vulpes vulpes*
Dist.: Ont
Record: Law and Kennedy 1932

Diphyllobothrium ursi Rausch, 1954
Site: intestine
Hosts: *Ursus americanus* (2,3)
U. arctos (1)
Dist.: BC, Que, YT
Records: 1. Choquette et al. 1969 (BC, YT); 2. Frechette and Rau 1977 (Que); 3. Juniper 1978 (Que)

Diphyllobothrium ursi Rausch, 1954
(eggs)
Site: intestine
Host: *Ursus americanus*
Dist.: Que
Record: Frechette and Rau 1978

Diphyllobothrium spp.
Site: digestive tract
Hosts: *Canis latrans* (3)
C. lupus (1,3,4)
Gulo gulo (5)
Vulpes vulpes (2)
Dist.: Alta, NWT, Ont
Records: 1. DeVos and Allin 1949 (Ont); 2. Freeman 1962 (Ont); 3. Holmes and Podesta 1968 (Alta); 4. Choquette et al. 1973 (NWT); 5. Addison and Boles 1978 (NWT)

Diphyllobothrium sp. eggs
Site: intestine
Host: *Ursus americanus*
Dist.: Que
Record: Frechette and Rau 1977

Schistocephalus solidus (Müller, 1776) Steenstrup, 1857
(plerocercoid)
Site: gastro-intestinal tract
Host: *Lutra canadensis*
Dist.: Nfld
Record: Smith and Threlfall 1973
Remarks: The plerocercoid was probably acquired by eating infected fish, and is not considered a true parasite of *Lutra canadensis*.

Unidentified Cestoda

Cestoda gen. spp.
Site: digestive tract, muscle
Hosts: *Alces alces* (1)
Clethrionomys gapperi (2)
Lasiurus cinereus (3)
Dist.: BC, Nfld, Que
Records: 1. Cowan 1942 (BC); 2. Schad 1954 (Nfld, Que); 3. Webster and Casey 1973 (BC)

PHYLUM NEMATHELMINTHES

CLASS NEMATODA

SUBCLASS ADENOPHOREA

ORDER ENOPLIDA

SUPERFAMILY DIOCTOPHYMATOIDEA

FAMILY DIOCTOPHYMATIDAE

Dioctophyma renale (Goeze, 1782) Collet-Meygret, 1802
Site: kidney
Hosts: *Canis latrans* (5)
C. lupus (9)
Mustela vison (1,2,3,6,7,8)
Mink (4)
Dist.: Alta, Man, Ont, Que
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3.Swales 1933b (Que); 4. Fyvie 1966 (Ont); 5. Holmes and Podesta 1968 (Alta); 6. Crichton and Urban 1970 (Man); 7. Mace and Anderson 1975 (Ont); 8. Mace 1976 (Ont); 9. McNeill et al. 1984 (Que)

Eustrongylides sp.larva
Site: muscle
Host: *Ondatra zibethicus*
Dist.: Ont
Record: Gibson and McKiel 1972

SUPERFAMILY TRICHINELLOIDEA

FAMILY TRICHINELLIDAE

Trichinella spiralis (Owen, 1835) Railliet, 1894
Site: small intestine
Hosts: *Martes pennanti* (4)
Mesocricetus auratus (3)
Mus musculus lab. (2,3,5)
Rattus sp. (1)
Ursus maritimus (3)
Lab. rat (3)
Dist.: Man, NB, NS, PEI, Que
Records: 1. Frank 1951 (NB, NS, PEI); 2. Shanta and Meerovitch 1967a (Que); 3. Dick and Belosevic 1978 (Man); 4. Dick and Leonard 1979 (Man); 5. Dick and Chadee 1983 (Man)

Trichinella spiralis (Owen, 1835) Railliet, 1894
(cyst/larva)
Sites: diaphragm, tongue, skeletal muscle
Hosts: *Alopex lagopus* (14)
Canis latrans (9,11)
C. lupus (8,9,13)
Felis concolor (11)
Gulo gulo (11,13)
Lynx canadensis (11)
L. rufus (9,11)
Martes americana (14,15)
Mephitis mephitis (11)

Mus musculus lab. (4,5,14 exp.)
Mustela frenata (11)
M. vison (11)
Peromyscus maniculatus (11)
Procyon lotor (9)
Rattus sp. (2,3)
Sorex vagrans (11)
Spermophilus columbianus (11)
Tamiasciurus hudsonicus (11)
Ursus americanus (7,9,10,11)
U. arctos (6,11)
U. maritimus (12,14)
Vulpes vulpes (9,14)
Lab. rat (1)

Dist.: Alta, BC, NB, Nfld, NS, NWT, PEI, Que, YT

Records: 1. Moynihan and Musfeldt 1949 (BC); 2. Frank 1951 (NB, NS, PEI); 3. Pool 1952 (BC); 4. Shanta and Meerovitch 1967a exp. (Que); 5. Shanta and Meerovitch 1967b (Que); 6. Choquette et al. 1969 (NWT, YT); 7. Schmitt et al. 1972 (BC); 8. Choquette et al. 1973 (NWT, YT); 9. Frechette and Panisset 1973 (Que); 10. Frechette and Rau 1977 (Que); 11. Schmitt et al. 1978 (BC); 12. Smith 1978a (Nfld); 13. Dies 1980 (Alta); 14. Chadee and Dick 1982 (Man, NWT); 15. Bourque 1985 (Que)

Remarks: Smith (1978a) reported *T. spiralis* from *Thalarctos maritimus*. I am following Hall's (1981) classification and calling the host *Ursus maritimus*.

Trichinella spiralis var. *pseudospiralis*
Site: muscle
Hosts: *Mus musculus* (1,2)
Procyon lotor (1)
Dist.: Man
Records: 1. Dick 1983 exp.; 2. Dick and Chadee 1983

Trichinella spp.
Site: unspecified
Hosts: *Canis lupus* (1)
Procyon lotor (2)
Lab. mouse (2)
Dist.: Alta, Man
Records: 1. Gunson and Dies 1980 (Alta); 2. Dick 1983 exp. (Man)

Trichinella spp. larva
Site: diaphragm, tongue
Hosts: *Felis concolor* (3)
Martes americana (2)
Ursus americanus (1)
U. arctos (3)
Dist.: Alta, Man, Ont
Records: 1. Addison et al. 1978 (Ont); 2. Poole et al. 1983 (Man); 3. Dies and Gunson 1984 (Alta)

FAMILY TRICHURIDAE

Capillaria aerophila Creplin, 1839
Sites: Lungs, bronchi, trachea
Hosts: *Canis latrans* (3)
C. lupus (3)
Martes americana (5,6)
Vulpes vulpes (1,2,4,5,6)
Dist.: Alta, NB, NS, Ont, Que
Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (Que); 3. Holmes and Podesta 1968 (Alta); 4. Smith 1978b (NB, NS); 5. Butterworth and Beverley-Burton 1980 (Ont), 6. 1981 (Ont)

Capillaria eubursata Skarbilovich, 1946
Site: digestive tract
Host: *Myotis lucifugus*
Dist.: BC
Record: Webster and Casey 1973

Capillaria hepatica Bancroft, 1896
Site: liver
Hosts: *Antilocapra americana* (11)
Canis latrans (13)
Clethrionomys gapperi (10)
C. g. gapperi (8)
Microtus pennsylvanicus (10)
M. p. pennsylvanicus (8)
Mus musculus lab. (8 exp.,9 exp.,12)
Napaeozapus i. insignis (8)
Ondatra zibethicus (1,2,4,5,14)
Peromyscus leucopus (9 exp.)
P. l. noveboracensis (8 exp.)
P. maniculatus (5,6,7,8,9,10)
Rattus norvegicus (3)
Spermophilus franklinii (15)
S. richardsonii (15)
Synaptomys c. cooperi (8)
Tamiasciurus hudsonicus (8 exp.)
Thomomys talpoides (5,6)
Dist.: Alta, BC, Man, Ont, Que, Sask
Records: 1. Price 1931 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Firlotte 1948 (Que); 4. Knight 1951 (BC); 5. Lubinsky 1956 (Alta), 6. 1957 (Alta); 7. Freeman 1958 (Ont); 8. Freeman and Wright 1960 (Ont); 9. Wright 1961 (Ont); 10. Lubinsky et al. 1971 (Man); 11. Barret and Chalmers 1972 (Alta); 12. Wright 1972 (Ont); 13. Wobeser and Rock 1973 (Sask); 14. McKenzie and Welch 1979 (Man); 15. McGee 1980 (Sask)

Capillaria michiganensis Read, 1949
Site: intestine
Hosts: *Ondatra zibethicus* (1,2)
O. z. obscurus (3)
Dist.: Man, Nfld, Ont
Records: 1. Webster 1966b (Ont); 2. McKenzie and Welch 1979 (Man); 3. Rigby and Threlfall 1981 (Nfld)

Capillaria mustelorum Cameron and Parnell, 1932
Site: intestine
Host: *Mustela vison*
Dist.: Nfld
Record: Jennings et al. 1982
Remarks: Jennings et al. (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.

Capillaria plica (Rudolphi, 1819) Travassos, 1915
Site: urinary bladder
Hosts: *Canis latrans* (3,5)
Martes pennanti (3,5)
Mephitis mephitis (3,5)
Procyon lotor (3,5)
Sorex cinereus (4)
Vulpes vulpes (1,2,3,5)
Dist.: Ont, Que
Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (Que); 3. Butterworth and Beverley-Burton 1980 (Ont); 4. Bourque 1981 (Que); 5. Butterworth and Beverley-Burton 1981 (Ont)

Capillaria procyonis Pence, 1975
Site: esophageal mucosa
Hosts: *Mephitis mephitis*
Procyon lotor
Dist.: Ont
Records: Butterworth and Beverley-Burton 1980, 1981

Capillaria putorii (Rudolphi, 1819) Travassos, 1915
Site: stomach
Hosts: *Martes americana*
M. pennanti
Mephitis mephitis
Mustela erminea
M. vison
Procyon lotor
Dist.: Ont
Records: Butterworth and Beverley-Burton 1980, 1981

Capillaria ransomia Barker and Noyes, 1915
Site: intestine
Host: *Ondatra zibethicus*
Dist.: BC
Record: Knight 1951

Capillaria spp.
Site: small intestine
Hosts: *Canis latrans* (7)
Mustela vison (1,2)
Odocoileus hemionus columbianus (3,4)
Ovibos moschatus (6)
Peromyscus maniculatus (5)
Procyon lotor (2)
Dist.: Alta, BC, Ont, Que
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Cowan 1946 (BC), 4. 1951 (BC); 5. Schad 1956 (Que); 6. Samuel and Gray 1974 capt. (Alta); 7. Samuel, Ramalingam et al. 1978 (Alta)

Capillaria sp. larva
Site: intestine
Host: *Mustela erminea*
Dist.: Nfld
Record: Jennings et al. 1982
Remarks: Jennings et al. (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.

Trichosomoides crassicauda (Bellingham, 1840) Railliet, 1895
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Trichuris fossor Hall, 1916
Site: caecum
Host: *Thomomys talpoides*
Dist.: Alta
Record: Lubinsky 1957

Trichuris leporis (Froelich, 1789)
Site: large intestine
Hosts: *Lepus americanus* (1)
Spermophilus richardsonii (2)
Dist.: Man
Records: 1. Boughton 1932 ; 2. Tiner 1950

Trichuris muris (Schrank, 1788) Hall, 1916
Sites: caecum, colon
Host: *Mus musculus*
Dist.: Ont
Record: Lee and Wright 1978 exp.

Trichuris opaca Barker and Noyes, 1915
Site: caecum
Host: *Ondatra zibethicus*
Dist.: BC, Ont
Records: Knight 1951 (BC); Sweatman 1952b (Ont)

Trichuris oreamnos Knight, 1974
Site: caecum
Host: *Oreamnos americanus*
Dist.: BC
Records: Knight 1974; Samuel, Hall et al. 1978

Trichuris ovis (Abildgaard, 1795) Smith, 1908
Sites: caecum, ileum
Hosts: *Cervus elaphus* (5)
Odocoileus hemionus columbianus (3,4)
Oreamnos americanus (2,4)
Ovis c. canadensis (1)
Dist.: Alta, BC
Records: 1. Cowan 1942 (BC), 2. 1944 (Alta), 3. 1946 (BC), 4. 1951 (Alta, BC); 5. Flook and Stenton 1969 (Alta)

Trichuris schumakovitschi (Savinkova, 1967) Knight and Uhazy, 1973
Site: intestine
Hosts: *Oreamnos americanus* (2)
Ovis c. canadensis (1,2)
Dist.: Alta, Canada
Records: 1. Knight and Uhazy 1973 (Canada); 2. Samuel, Hall et al. 1978 (Alta)

Trichuris vulpis (Froelich, 1789)
Site: intestine
Host: *Vulpes vulpes*
Dist.: Que
Record: Swales 1933b
Remarks: Swales (1933b) did not specify the site in which his specimens were found, but presumably it was the intestine.

Trichuris spp.
Sites: caecum, feces
Hosts: *Alces alces* (2,8,11)
A. a. andersoni (5)
Cervus elaphus (11)
Odocoileus hemionus (9)
Oreamnos americanus (3,9)
Ovibos moschatus (6,7)
Ovis canadensis californianus (2)
Spermophilus richardsonii (1,10)
Dist.: Alta, BC, Man, Sask
Records: 1. Rausch and Tiner 1948 (Man); 2. Blood 1963 (BC); 3. Kerr and Holmes 1966 (Alta); 4. Walker and Becklund 1970 (BC); 5. Barrett 1972 (Alta); 6. Samuel and Gray 1974 capt. (Alta); 7. MacDonald et al. 1976 (Alta); 8. Samuel et al. 1976 (Alta); 9. Samuel, Hall et al. 1978 (Alta); 10. McGee 1980 (Sask); 11. Stock and Barrett 1983 (Alta)
Remarks: Kerr and Holmes (1966) feel their species was probably *Trichuris ovis*.

SUBCLASS SECERNENTEA
ORDER ASCARIDIDA
SUPERFAMILY ASCARIDOIDEA

FAMILY ANISAKIDAE

Anisakis sp.
Site: stomach
Host: Guinea pig
Dist.: Que
Record: Myers 1963 exp.

FAMILY ASCARIDIDAE

Ascaris spp.
Site: intestine
Hosts: *Mustela vison* (2)
Procyon lotor (1,2)
Tamiasciurus hudsonicus (4)
Taxidea taxus (3)
Ursus americanus (5)
Dist.: Alta, Ont, Que
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Swales 1933b (Alta); 4. Mahrt and Chai 1972 (Alta); 5. Juniper 1978 (Que)

Baylisascaris columnaris (Leidy, 1856)
Syn.: *Ascaris columnaris*
Site: digestive tract
Host: *Mephitis mephitis*
Dist.: Ont, Que
Records: Choquette 1951 (Que); Sprent 1952 (Ont); Webster and Wolfgang 1956 (Que)

Baylisascaris devosi (Sprent, 1952)
Syn.: *Ascaris devosi*
Site: intestine
Hosts: *Gulo gulo* (3)
Martes americanus (4)
M. a. americanus (1)
M. pennanti (4)
M. p. pennanti (1)
Mephitis mephitis (1 exp.)
Mustela putorius (1 exp.)
Dist.: Man, NWT, Ont
Records: 1. Sprent 1952 (Ont); 2. Addison and Boles 1978 (NWT); 3. Dick and Leonard 1979 (Man); 4. Poole et al. 1983 (Man)

Baylisascaris laevis (Leidy, 1856)
Site: small intestine
Hosts: *Marmota vancouverensis* (2)
Spermophilus richardsonii (1)
Dist.: BC, Sask
Records: 1. McGee 1980 (Sask); 2. Mace and Shepard 1981 (BC)

Baylisascaris transfuga (Rudolphi, 1819) Sprent, 1968
Syn.: *Ascaris transfuga* Rudolphi, 1819
Sites: large and small intestine
Hosts: *Ursus americanus* (4,5,6)
U. a. vancouveri (2)
U. arctos (1,3)
Dist.: Alta, BC, NWT, Ont, Que, YT
Records: 1. Baird 1853 (BC); 2. Cowan 1942 (BC); 3. Choquette et al. 1969 (YT?, NWT?); 4. Frechette and Rau 1977 (Que); 5. Addison et al. 1978 (Ont); 6. Dies 1979 (Alta)
Remarks: Baird (1853) referred to the grizzly bear as *Ursus ferox*.

Baylisascaris transfuga (Rudolphi, 1819) Sprent, 1968
(eggs)
Site: intestine
Host: *Ursus americanus*
Dist.: Que
Record: Frechette and Rau 1978

Baylisascaris sp.larva
Site: liver
Host: *Spermophilus richardsonii*
Dist.: Sask
Record: McGee 1980

Toxascaris leonina (Von Linstow, 1902) Leiper, 1907
Syn.: *Toxascaris limbata*
Site: small intestine
Hosts: *Alopex lagopus* (9)
Canis latrans (5,8)
C. lupus (5,7,8)
Lynx canadensis (4,6)
L. rufus fasciatus (3)
Vulpes vulpes (1,2,8)
Dist.: Alta, BC, Man, Nfld, NWT, Ont, Que, YT
Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (Que); 3.Cowan 1942 (BC); 4. Zyll de Jong 1966 (Alta, NWT); 5. Holmes and Podesta 1968 (Alta); 6. Threlfall 1969 (Nfld); 7. Choquette et al. 1973 (NWT, YT); 8. Samuel, Ramalingam et al. 1978 (Man); 9. Eaton and Secord 1979 (NWT)

Toxocara canis (Werner, 1782) Stiles, 1905
Site: small intestine
Hosts: *Canis latrans* (2)
C. lupus (2)
Vulpes vulpes (1,3,4)
Dist.: Alta, Man, NB, NS, Ont
Records: 1. Law and Kennedy 1932 (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Baron 1970 (Man); 4. Smith 1978b (NB, NS)

Toxocara cati (Schrank, 1788) Brumpt, 1927
Syn: *Toxocara mystax* (Zeder, 1800)
Site: small intestine
Host: *Lynx canadensis*
Dist.: Alta, NWT, Ont
Record: Anonymous 1930 (Ont); Law and Kennedy 1932 (Ont); Zyll de Jong 1966 (Alta, NWT)

Ascarid gen. sp. egg
Site: intestine (feces)
Host: *Ursus americanus*
Dist.: Que
Record: Frechette and Rau 1977
Remarks: Frechette and Rau (1977) noted that their specimens were probably *Baylisascaris transfuga*.

SUPERFAMILY HETERAKOIDEA

FAMILY HETERAKIDAE

Heterakis spumosa Schneider, 1866
Site: intestine
Host: *Rattus norvegicus*
Dist.: Nfld, Que
Records: Firlotte 1948 (Que); Smith and Threlfall 1973 (Nfld)

SUPERFAMILY SUBULUROIDEA

FAMILY SUBULURIDAE

Oxynema sp.
Site: small intestine
Host: *Spermophilus tridecemlineatus*
Dist.: Alta
Record: Lubinsky 1957

ORDER OXYURIDA

SUPERFAMILY OXYUROIDEA

FAMILY HETEROXYNEMATIDAE

Cephaluris alaskensis Akhtar
Site: gastrointestinal tract
Hosts: *Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs 1980

Cephaluris coloradensis Olsen, 1949
Site: gastrointestinal tract
Hosts: *Ochotona collaris*
O. princeps
Dist.: Alta, YT
Record: Hobbs 1980

Heteroxynema cucullatum Hall, 1916
Site: caecum
Host: *Eutamias minimus*
Dist.: Sask
Record: McGee 1980

Labiostomum coloradensis Leiby, 1961
Site: gastrointestinal tract
Host: *Ochotona princeps*
Dist.: Alta
Record: Hobbs 1980

Labiostomum rauschi Akhtar, 1956
Site: gastrointestinal tract
Host: *Ochotona collaris*
Dist.: YT
Record: Hobbs 1980

Labiostomum talkeetnaeuris (Akhtar, 1956)
Syn.: *Eugenuris talkeetnaeuris* Akhtar, 1956
Site: gastrointestinal tract
Host: *Ochotona collaris*
Dist.: YT
Record: Hobbs 1980

Unidentified *Labiostomum* sp.
Site: gastrointestinal tract
Host: *Ochotona princeps*
Dist.: Alta
Record: Hobbs 1980

FAMILY OXYURIDAE

Passalurus nonanulatus Skinker, 1931
Site: large intestine
Host: *Lepus americanus*
Dist.: Man
Record: Boughton 1932

Skrjabinema ovis Skrjabin, 1915
Site: caecum, large intestine
Hosts: *Oreamnos americanus* (1,2)
Ovis c. canadensis (2)
Dist.: Alta
Records: 1. Kerr and Holmes 1966; 2. Samuel, Hall et al. 1978

Skrjabinema sp.
Sites: caecum, large intestine
Host: *Ovis canadensis californianus*
Dist.: BC
Record: Blood 1963

Syphacia citelli Tiner and Rausch, 1950
Site: caecum
Host: *Spermophilus richardsonii*
Dist.: Sask
Record: McGee 1980

Syphacia eutamii Tiner, 1948
Site: large intestine
Host: *Eutamias amoenus*
Dist.: Alta
Record: Lubinsky 1957

Syphacia obvelata (Rudolphi, 1802) Seurat, 1916
Syn.: *Ascaris obvelata* Rudolphi, 1802
Site: large intestine
Hosts: *Microtus pennsylvanicus* (2)
M. p. drummondi (1)
Mus musculus (3)
Dist.: Man, Nfld, Que
Records: 1. Rausch and Tiner 1949 (Man); 2. Schad 1954 (Nfld, Que); 3. Threlfall 1969 (Nfld)

Syphacia peromysci Harkema, 1936
Sites: caecum, colon
Host: *Peromyscus maniculatus*
Dist.: Que
Record: Schad 1956

Syphacia thompsoni Price, 1928
Site: caecum
Host: *Tamiasciurus hudsonicus*
Dist.: Alta, Sask
Records: Mahrt and Chai 1972 (Alta); McGee 1980 (Sask)

ORDER RHABDITIDA
SUPERFAMILY RHABDITOIDEA
FAMILY RHABDITIDAE

Pelodera strongyloides (Schneider, 1860) Schneider, 1866
larva
Site: conjunctival sacs
Hosts: *Dicrostonyx groenlandicus*
Lemmus trimucronatus
Microtus pennsylvanicus (exp.)
Mus musculus (exp.)
Peromyscus maniculatus (exp.)
Dist.: NWT
Record: Cliff et al. 1978

FAMILY STRONGYLOIDIDAE

Strongyloides papillosus (Wedl, 1856) Ransom, 1911
Site: large intestine
Host: *Lepus americanus*
Dist.: Man
Record: Boughton 1932

Stongyloides ratti Sandground, 1925
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

Strongyloides robustus Chandler, 1942
Site: intestine
Hosts: *Spermophilus richardsonii*
S. tridecemlineatus
Tamiasciurus hudsonicus
Dist.: Sask
Record: McGee 1980

Strongyloides sp.
Site: intestine
Host: *Mustela vison*
Dist.: Ont
Record: Law and Kennedy 1932

ORDER SPIRURIDA
SUPERFAMILY DRACUNCULOIDEA
FAMILY DRACUNCULIDAE

Dracunculus insignis (Leidy, 1858) Chandler, 1942
Site: connective tissue
Hosts: *Martes pennanti* (4,5)
Mephitis mephitis (2)
Mustela vison (4,5,6)
Ondatra zibethicus (3)
Procyon lotor (4,5,6,7)
Mink (1)
Muskrat (1)
Otter (1)
Raccoon (1)
Dist.: Ont
Records: 1. Fyvie 1966; 2. Webster and Casey 1970; 3. Gibson and McKiel 1972; 4. Crichton and Beverley-Burton 1973, 5. 1974, 6. 1975 exp., 7. 1977

Dracunculus lutrae Crichton and Beverley-Burton, 1973
Site: connective tissue
Host: *Lutra canadensis*
Dist.: Ont
Records: Crichton and Beverley-Burton 1973, 1974

Dracunculus spp.
Site: unspecified
Hosts: *Didelphis virginiana* (2,3)
Lutra canadensis (1)
Mustela erminea (1,2,3)
M. vison (1)
Ondatra zibethicus (1,2,3)
Procyon lotor (3)
Taxidea taxus (2)
Dist.: Man, Ont
Records: 1. Crichton 1971 (Ont); 2. Crichton and Beverley-Burton 1973 (Man, Ont), 3. 1974 (Ont)
Remarks: Crichton (1971) stated that *Dracunculus* sp. in his *Ondatra zibethicus* and *Mustela erminea* ..."probably represent accidental infections."

SUPERFAMILY FILARIOIDEA
FAMILY FILARIIDAE

Filaria sp.
Site: trachea
Host: *Mustela vison*
Dist.: Ont
Record: Law and Kennedy 1932

FAMILY ONCHOCERCIDAE

Ackertia marmotae Webster, 1967
Sites: lymphatics, connective tissue of the gall bladder and bile
Hosts: *Marmota monax* (2)
M. m. canadensis (1)
Dist.: Ont, Que
Records: 1. Webster 1967b (Ont, Que); 2. Ko 1972 (Ont)

Cercopithifilaria leporinus Bartlett, 1983
Site: subcutaneous tissue
Host: *Lepus americanus*
Dist.: Alta, Ont
Record: Bartlett 1983b

Dipetalonema mephitis Webster and Beauregard, 1964
Site: subcutaneous tissue
Host: *Mephitis mephitis*
Dist.: Que
Records: Webster and Beauregard 1964, 1965

Dipetalonema mephitis Webster and Beauregard, 1964
(microfilaria)
Syn.: *Microfilaria mephitis* Webster and Beauregard, 1964
Site: blood, brain
Hosts: *Mephitis mephitis*
Dist.: Ont, Que
Records: Webster and Beauregard 1964 (Que), 1965 (Que); Webster 1966a (Ont)

Dipetalonema sprenti Anderson, 1953
Site: peritoneal cavity
Host: *Castor canadensis*
Dist.: Ont
Records: Anderson 1953; Addison 1973

Dipetalonema sprenti Anderson,1953
(microfilaria)
Site: blood
Host: *Castor canadensis*
Dist.: Ont
Record: Addison 1973

Dirofilaria scapiceps (Leidy, 1886) York and Maplestone, 1926
Syn.: *Filaria scapiceps* Leidy, 1886
Sites: subcutaneous fascia of the shoulder and lumbar regions; intermuscular fascia of the hind legs
Hosts: *Lepus americanus* (2,3,4,5)
L. a. struthopus (1)
L. capensis (2)
Oryctolagus cuniculus (2,3)
Sylvilagus floridanus (2,3,4)
Dist.: Alta, NB, NWT, Ont
Records: 1. Maltais and Ouellette 1979 (NB); 2. Bartlett 1983a (Alta, NWT, Ont), 3. 1984a exp (Ont), 4. 1984b (Alta, Ont); 5. Keith et al. 1985 (Alta)

Dirofilaria ursi Yamaguti, 1941
Sites: superficial abdominal fascia, adipose tissue of inguinal region, oesophagus
Hosts: *Ursus americanus* (4,5,6)
U. a. americanus (2,5)
U. arctos (3)

Dist.: Alta, BC, Ont, Que, YT
Records: 1. Anderson 1952 (Ont); 2. Choquette 1952 (Ont, Que); 3. Choquette et al. 1969 (BC, YT); 4. Frechette and Rau 1977 (Que); 5. Addison et al. 1978 (Ont); 6. Dies 1979 (Alta)

Dirofilaria ursi Yamaguti, 1941
(microfilaria)
Site: blood
Host: *Ursus americanus*
Dist.: Ont
Record: Addison et al. 1978; Addison 1980

Elaeophora schneideri Wehr and Dikmans, 1935
Site: large arteries
Host: *Odocoileus hemionus columbianus*
Dist.: BC
Record: Cowan 1946, Cowan 1951

Litomosoides carinii (Travassos, 1919) Vaz, 1934
Site: coelom
Host: *Thomomys talpoides*
Dist.: Alta
Record: Lubinsky 1957

Litomosoides guiterasi (Vigueras, 1934) Sandground, 1934
Site: digestive tract
Host: *Eptesicus fuscus*
Dist.: BC
Record: Webster and Casey 1973

Onchocerca cervipedis Wehr and Dikmans, 1935
Syn.: *Wehrdikmansia cervipedis* (Wehr and Dikmans, 1935) Caballero, 1945
Site: subcutaneous connective tissue
Hosts: *Alces alces* (2,3,6,7,8)
A. a. andersoni (5)
Odocoileus hemionus columbianus (2)
O. h. hemionus (2)
O. virginianus (4)
Dist.: Alta, BC, Ont
Records: 1. Cowan 1946 (BC), 2. 1951 (BC); 3. Ritcey and Edwards 1958 (BC); 4. Anderson 1962b (Ont); 5. Barrett 1972 (Alta); 6. Samuel 1972b (Alta); 7. Samuel et al. 1976 (Alta); 8. Pledger et al. 1980 (Alta)

Onchocerca sp.
Site: leg muscle
Host: *Rangifer tarandus caribou*
Dist.: BC
Record: Low 1976

Rumenfilaria andersoni Lankester and Snider, 1982
Site: subserosal veins of the rumen
Host: *Alces alces*
Dist.: Ont
Record: Lankester and Snider 1982

Setaria cervi (Dujardin, 1845) Becklund and Walker, 1964
Site: peritoneal cavity
Hosts: *Cervus elaphus* (4)
Odocoileus hemionus columbianus (2,3)
Rangifer tarandus (1)
Dist.: Alta, BC, Sask
Records: 1. Erickson and Highby 1942 (Sask); 2. Cowan 1946 (BC), 3. 1951 (BC); 4. Flook and Stenton 1969 (Alta)

Setaria labiatopapillosa (Perroncito, 1882) Railliet and Henry, 1911
Site: peritoneal cavity
Hosts: *Alces alces* (3)
Bison bison (1,2)
Dist.: Alta
Records: 1. Cameron 1923; 2. Becklund and Walker 1969; 3. Samuel et al. 1976

Setaria tundra Isaichikov and Raevskays, 1928
Site: body cavity
Host: *Odocoileus virginianus*
Dist.: Ont
Record: Anderson 1962b

Setaria yehi Desset, 1966
Site: peritoneal cavity
Hosts: *Alces alces* (2)
Odocoileus hemionus (1)
Rangifer tarandus (1)
Dist.: Alta, BC, NWT
Records: 1. Becklund and Walker 1969 (BC, NWT); 2. Samuel et al. 1976 (Alta)

Setaria spp.
Site: intestine
Hosts: *Alces alces* (1,3,4)
A. a. andersoni (2)
Dist.: Alta, Man, Que
Records: 1. Peterson 1955 (Que); 2. Barrett 1972 (Alta); 3. Crichton 1979 (Man), 4. 1980 (Man)

SUPERFAMILY GNATHOSTOMATOIDEA

FAMILY GNATHOSTOMATIDAE

Gnathostoma miyazakii Anderson, 1964
Site: kidneys
Host: *Lutra c. canadensis*
Dist.: Ont
Record: Anderson 1964a

SUPERFAMILY PHYSALOPTEROIDEA

FAMILY PHYSALOPTERIDAE

Physaloptera bispiculata Vaz and Pereira, 1955
Site: stomach
Host: *Ochotona princeps*
Dist.: Alta
Record: Lubinsky 1957

Physaloptera maxillaris Molin, 1860
Site: digestive tract
Host: *Mephitis mephitis*
Dist.: Ont, Que
Records: Choquette 1951 (Que); Webster and Beauregard 1965 (Que); Lincoln and Anderson 1973 (Ont); Cawthorn and Anderson 1976a (Ont), 1976b (Ont)

Physaloptera praeputialis Linstow, 1899
Site: stomach
Host: *Lynx canadensis*
Dist.: Alta, NWT
Record: Zyll de Jong 1966

Physaloptera rara Hall and Wigdor, 1918
Site: intestine
Host: *Ursus americanus*
Dist.: Ont
Record: Addison et al. 1978 capt.

Physaloptera spinicauda McLeod, 1933
Site: stomach
Hosts: *Spermophilus franklinii* (1,3)
S. richardsonii (3)
S. tridecemlineatus (1,2,3)
Dist.: Alta, Man, Sask
Records: 1. Mcleod 1933 (Man); 2. Lubinsky 1957 (Alta); 3. McGee 1980 (Sask)

Physaloptera spinicauda McLeod, 1933 (larva)
Sites: stomach, duodenum
Hosts: *Spermophilus franklinii*
S. richardsonii
S. tridecemlineatus
Dist.: Sask
Record: McGee 1980

Physaloptera spp.
Site: stomach, intestine
Hosts: *Canis latrans* (7)
Gulo gulo (6)
Lynx canadensis (2)
Martes pennanti (8)
Mephitis mephitis (4)
Procyon lotor (1,2,3)
P. l. hirtus (9)
Tamiasciurus hudsonicus (5)
Taxidea taxus (3)
Dist.: Alta, Man, NWT, Ont, Que, Sask
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Swales 1933b (Alta, Que); 4. Webster and Wolfgang 1956 (Que); 5. Mahrt and Chai 1972 (Alta); 6. Addison and Boles 1978 (NWT); 7. Samuel, Ramalingam et al. 1978 (Alta); 8. Dick and Leonard 1979 (Man); 9. Hoberg and McGee 1982 (Sask)
Remarks: Webster and Wolfgang (1956) believed their *Physaloptera* sp. was probably *P. maxillaris* .

SUPERFAMILY RICTULARIOIDEA

FAMILY RICTULARIIDAE

Rictularia citelli McLeod, 1933
Sites: stomach, duodenum
Hosts: *Spermophilus franklinii*
S. tridecemlineatus
Dist.: Man
Record: McLeod 1933

Rictularia coloradensis Hall, 1916
Site: stomach
Host: *Microtus pennsylvanicus*
Dist.: Alta
Record: Lubinsky 1957

Rictularia lucifugus Douvres, 1956
Site: digestive tract
Hosts: *Eptesicus fuscus*
Myotis lucifugus
M. volans longicrus
Dist.: BC
Record: Webster and Casey 1973

Rictularia sp.
Site: digestive tract
Host: *Myotis lucifugus*
Dist.: BC
Record: Webster and Casey 1973

SUPERFAMILY SPIRUROIDEA

FAMILY SPIROCERCIDAE

Cylicospirura subaequalis (Molin, 1860)
Site: stomach
Host *Lynx canadensis*
Dist.: Alta, Nfld, NWT
Records: Zyll de Jong 1966 (Alta, NWT); Threlfall 1969 (Nfld); Pence et al. 1978 (Alta)

Spirocerca arctica Petrov, 1927
Site: stomach
Host: *Canis lupus*
Dist.: NWT
Record: Choquette et al. 1973

Spirocerca lupi (Rudolphi, 1809) Railliet and Henry, 1911
Sites: esophagus, stomach
Hosts: *Canis lupus*
Dist.: NWT
Record: Choquette et al. 1973

FAMILY SPIRURIDAE

Protospirura ascaroidea Hall, 1916
Site: stomach
Host: *Thomomys talpoides*
Dist.: Alta
Record: Lubinsky 1957

Protospirura muris (Gmelin, 1780)
Syn.: *Mastophorus muris* (Gmelin, 1790)
Site: stomach, liver
Hosts: *Clethrionomys gapperi* (2,4)
Peromyscus maniculatus (3)
Rattus norvegicus (1)
Zapus hudsonius (2)
Dist.: Alta, Nfld, Que
Record: 1. Firlotte 1948 (Que); 2. Schad 1954 (Nfld), 3. 1956 (Que); 4. Lubinsky 1957 (Alta)

Spirura infundibuliformis McLeod, 1933
Sites: stomach, esophagus
Hosts: *Spermophilus franklinii* (2)
S. richardsonii (1,2)
S. tridecemlineatus (1,2)
Dist.: Man, Sask
Records: 1. McLeod 1933 (Man); 2. McGee 1980 (Sask)

Spirura infundibuliformis McLeod, 1933 (larva)
Sites: stomach, esophagus
Hosts: *Spermophilus franklinii*
S. richardsonii
S. tridecemlineatus
Dist.: Sask
Record: McGee 1980

ORDER STRONGYLIDA
SUPERFAMILY ANCYLOSTOMATOIDEA
FAMILY ANCYLOSTOMATIDAE

Ancylostoma caninum Ercolani, 1854
Site: intestine
Hosts: *Canis latrans* (2)
Vulpes vulpes (1)
Dist.: Alta, Que
Records: 1. Swales 1933b (Que); 2. Holmes and Podesta 1968 (Alta)

Arthrocephalus lotoris (Schwartz, 1925) Chandler, 1942
Site: digestive tract
Host: *Mephitis mephitis*
Dist.: Que
Record: Choquette 1951

Placoconus lotoris (Schwartz, 1925) Webster, 1956
Site: intestine
Hosts: *Mephitis mephitis* (1)
Procyon lotor (2,3)
Dist.: Que
Records: 1. Webster and Wolfgang 1956; 2. Balasingam 1964a exp., 3. 1964b exp.

Uncinaria yukonensis (Wolfgang, 1956)
Site: small intestine
Hosts: *Ursus americanus* (1,3)
U. arctos (2)
Dist.: NWT, Que, YT
Records: 1. Wolfgang 1956 (YT); 2. Choquette et al. 1969 (NWT, YT); 3. Frechette and Rau 1977 (Que)

Hookworm egg
Site: feces
Host: *Ursus americanus*
Dist.: Que
Records: Frechette and Rau 1977; Juniper 1978
Remarks: Frechette and Rau (1977) believed their material was probably *Uncinaria yukonensis*.

SUPERFAMILY METASTRONGYLOIDEA
FAMILY ANGIOSTRONGYLIDAE

Aelurostrongylus pridhami Anderson, 1962
Site: lungs
Hosts: *Mustela erminea* (4)
M. vison (2,3,4)
M. v. vison (1)
Dist.: Nfld, Ont
Records: 1. Anderson 1962a (Ont); 2. Stockdale 1970a exp. (Ont), 3. 1970b exp. (Ont); 4. Jennings et al. 1982 (Nfld)

Andersonstrongylus captivensis Webster, 1978
Site: lungs
Host: *Mephitis mephitis*
Dist.: Ont
Record: Webster 1980 exp.

Angiostrongylus vasorum (Baillet, 1866) Kamensky, 1905
Site: unspecified
Host: *Vulpes vulpes*
Dist.: Nfld
Record: Smith and Threlfall 1973

Sobolevingylus sp.
Site: lungs
Host: *Martes pennanti*
Dist.: Ont
Record: Craig and Borecky 1976

Trilobostrongylus bioccai Anderson, 1963
Site: lungs
Hosts: *Martes pennanti* (2)
M. p. pennanti (1)
Dist.: Ont
Records: 1. Anderson 1963b; 2. Craig and Borecky 1976

FAMILY CRENOSOMATIDAE

Crenosoma decoratum (Creplin, 1847) Stoss, 1898
Sites: lungs and trachea
Host: *Vulpes vulpes*
Dist.: Ont
Record: Law and Kennedy 1932

Crenosoma goblei Dougherty, 1945
Site: bronchi, bronchioles
Host: *Procyon lotor*
Dist.: Ont
Record: Craig and Anderson 1972

Crenosoma hermani Anderson, 1962
Site: bronchi
Host: *Mustela v. vison*
Dist.: Ont
Record: Anderson 1962a; Craig and Anderson 1972

Crenosoma mephitidis Hobmaier, 1941
Sites: bronchi, bronchioles, lungs
Host: *Mephitis mephitis*
Dist.: Ont, Que
Records: Webster 1964 (Que); Webster and Beauregard 1965 (Que); Craig and Anderson 1972 (Ont); Stockdale et al. 1974 exp. (Ont)

Crenosoma petrowi Morozov, 1939
Sites: bronchi, bronchioles
Hosts: *Martes pennanti* (2)
Taxidea taxus (1)
Ursus americanus (3,4)
Dist.: Ont
Records: 1. Craig and Anderson 1972; 2. Craig and Borecky 1976; 3. Addison 1978; 4. Addison et al. 1978

Crenosoma potos Buckley, 1930
Site: lungs
Host: *Ursus americanus*
Dist.: Ont
Record: Addison 1978; Addison et al. 1978

Crenosoma vulpis (Dujardin, 1844) Railliet, 1915
Site: lungs
Hosts: *Ursus americanus* (4,5)
Vulpes vulpes (1,2,3,6)
Dist.: NB, Nfld, NS, Ont
Records: 1. Threlfall 1969 (Nfld); 2. Craig and Anderson 1972 (Ont); 3. Smith and Threlfall 1973 (Nfld); 4. Addison 1978 (Ont); 5. Addison et al. 1978 (Ont); 6. Smith 1978b (NB, NS)

Crenosoma spp.
Site: lungs
Hosts: *Ursus americanus* (2)
Red fox (1)
Dist.: Ont
Records: 1. Law and Secord 1931; 2. Addison et al. 1978

Troglostrongylus wilsoni (Stough, 1953) Sarmiento and Stough, 1956
Site: lungs
Host: *Lynx canadensis*
Dist.: Alta, NWT
Record: Zyll de Jong 1966

FAMILY FILAROIDIDAE

Filaroides canadensis Anderson, 1963
Site: lungs
Host: *Lutra c. canadensis*
Dist.: Ont
Record: Anderson 1963b

Filaroides martis (Werner, 1782) Dougherty, 1943
Syn.: *Filaroides bronchialis* (Gmelin, 1790)
Sites: bronchi, trachea
Hosts: *Mephitis mephitis* (3)
Mustela vison (1,5,6,7)
M. v. vison (2)
Mink (4)
Dist.: Ont, Que
Records: 1. Law and Kennedy 1932 (Ont); 2. Anderson 1962a (Ont); 3. Webster and Beauregard 1965 (Que); 4. Fyvie 1966 (Ont); 5. Stockdale 1970b exp. (Ont); 6. Stockdale and Anderson 1970 exp. (Ont); 7. Ko and Anderson 1972 exp. (Ont)

Filaroides mephitis Webster, 1967
Site: lungs
Host: *Mephitis mephitis*
Dist.: Ont
Record: Webster 1967a

Oslerus osleri (Cobbold, 1879) Anderson, Chabaud, and Willmott, 1978
Sites: lungs, trachea
Hosts: *Canis latrans* (1,2,3)
C. lupus (1,3)
Coyote x Dog (1)
Dist.: Alta, Man, Ont
Records: 1. Fyvie 1966 (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Samuel, Ramalingam et al. 1978 (Man)

Oslerus sp.
Site: pulmonary veins
Host: *Mustela vison*
Dist.: Ont
Record: Anonymous 1930

FAMILY PROTOSTRONGYLIDAE

Elaphostrongylus cervi Cameron, 1931
Sites: beneath skin, fascia of thoracic musculature
Hosts: *Alces alces* (1)
Rangifer tarandus (1)
R. t. caribou (2)
Dist.: Nfld, Ont
Records: 1. Lankester 1977 exp. (Ont); 2. Lankester and Northcott 1979 (Nfld)

Elaphostrongylus cervi Cameron, 1931 (larva)
Sites: feces, trachea
Hosts: *Rangifer tarandus caribou*
R. t. groenlandicus
Dist.: Man, Nfld
Record: Lankester and Northcott 1979

Elaphostrongylus odocoilei Hobmaier and Hobmaier, 1934
Sites: meninges, subarachnoid space
Host: *Odocoileus virginianus borealis*
Dist.: Ont
Record: Anderson 1956

Orthostrongylus macrotis (Dikmans, 1931) Dougherty and Goble, 1946
Site: lungs
Hosts: *Alces alces*
Cervus elaphus
Dist.: Alta
Record: Stock and Barrett 1983

Parelaphostrongylus andersoni Prestwood, 1972
Sites: skeletal muscles of thigh and dorsum
Host: *Odocoileus virgianus*
Dist.: BC
Record: Pybus and Samuel 1981 exp.

Parelaphostrongylus andersoni Prestwood, 1972 (larva)
Site: feces
Host: *Odocoileus virginianus*
Dist.: BC
Records: Pybus and Samuel 1981; Ballantyne and Samuel 1984

Parelaphostrongylus odocoilei (Hobmaier and Hobmaier, 1934)
Boev and Schults, 1950
Sites: skeletal muscles, larvae in feces
Hosts: *Alces alces* (3 exp.)
A. a. andersoni (1)
Oreamnos americana (5)
Odocoileus hemionus (4)
O. h. columbianus (1,5,6)
O. h. hemionus (1,2,3,6)
O. virginianus / O. hemionus hybrid (5)
Dist.: Alta, BC
Records: 1. Platt and Samuel 1978a exp. (Alta), 2. 1978b exp.; 3. Pybus and Samuel 1980 (Alta); 4. Ballantyne and Samuel 1984 (BC); 5. Pybus, Foreyt, and Samuel 1984 (Alta, BC); 6. Shostak and Samuel 1984 exp. (Alta)

Parelaphostrongylus tenuis (Dougherty, 1945) Pryadko and Boev, 1971
Syn.: *Pneumostrongylus tenuis* Dougherty,1945
Sites: piarachnoid and meninges of brain
Hosts: *Alces alces* (2,3,12)
A. a. americana (4)
Cervus elaphus (6)
Odocoileus h. hemionus (6)
O. virginianus (3,7,10,11)
O. v. borealis (1)
Rangifer t. tarandus (9)
R. t. terraenovae (8)
Guinea pig (*Cavia porcellus*) (5)
Dist.: Man, NB, NS, Ont, Que, Sask
Records: 1. Anderson 1963a (Ont), 2. 1964b exp. (Ont); 3. Smith et al. 1964 (NB,NS); 4. Anderson 1965a (Ont); 5. Anderson and Strelive 1966a (Ont); 6. Anderson et al. 1966 exp. (Ont); 7. Anderson and Strelive 1967 exp. (Ont), 8. 1968 exp. (Ont); 9. Anderson 1971b (Ont); 10. Bindernagel and Anderson 1972a (Man, Ont, Que, Sask), 11. 1972b (Man, Ont, Que, Sask); 12. Lankester 1972 (Man)

Parelaphostrongylus tenuis (Dougherty, 1945) Pryadko and Boev, 1971
(larva)
Site: feces
Hosts: *Alces alces* (1)
Odocoileus virginianus (1)
O. v. dacotensis (3)
Rangifer tarandus caribou (2)
Dist.: Alta, NS, Ont
Records: 1. Saunders 1973 (Ont); 2. Dauphine, Jr. 1975 (NS); 3. Shostak and Samuel 1984 exp. (Alta)

Parelaphostrongylus sp.
(larva)
Site: feces
Host: *Odocoileus hemionus*
Dist.: Alta
Record: Samuel and Holmes 1974

Protostrongylus boughtoni Goble and Dougherty, 1943
Sites: lungs, bronchi, bronchioles
Hosts: *Lepus americanus* (1,2,4,5)
L. a. americanus (3)
Oryctolagus cuniculus lab. rabbit (3)
Dist.: Alta, Man, NB, Ont
Records: 1. Boughton 1932 (Man); 2. Goble and Dougherty 1943 (Man, NB, Ont); 3. Kralka and Samuel 1984 exp. (Alta); 4. Keith et al. 1985 (Alta); 5. Kralka 1985 (Que)

Protostrongylus macrotis Dikmans, 1931
Site: lungs
Host: *Alces alces*
Dist.: Alta
Record: Samuel et al. 1976

Protostrongylus rushi Dickmans, 1937
Site: lungs
Hosts: *Oreamnos americanus* (2)
Ovis c. canadensis (1,2)
Dist.: Alta, BC
Records: 1. Uhazy et al. 1973; 2. Samuel, Hall et al. 1978

Protostrongylus stilesi Dickmans, 1931
Site: lungs
Hosts: *Oreamnos americanus* (1,2,5,6)
Ovis canadensis (1,3)
O. c. canadensis (2,4,5)
Dist.: Alta, BC
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Hudson et al. 1970 (BC?); 4. Uhazy et al. 1973 (Alta, BC); 5. Samuel, Hall et al. 1978 (Alta); 6. Pybus, Foreyt, and Samuel 1984 (Alta)

Protostrongylus sp.
Site: lungs
Host: *Oreamnos americanus*
Dist.: Alta
Record: Kerr and Holmes 1966
Remarks: This parasite was reported by Kerr and Holmes (1966) as probably being *Protostrongylus stilesi*.

Protostrongylus sp. larva
Site: feces, liver
Hosts: *Ovis canadensis californiana* (1)
O. c. canadensis (2,4)
Rangifer tarandus caribou (3)
Dist.: Alta, BC, Man, Ont
Records: 1. Blood 1963 (BC); 2. Uhazy et al. 1973 (Alta, BC); 3. Lankester et al. 1976 (Man, Ont); 4. Gates and Samuel 1977 (Alta)

Varestrongylus alpenae (Dikmans, 1935) Dougherty, 1945
Site: lungs
Hosts: *Odocoileus h. hemionus*
O. virginianus
Dist.: Sask
Records: Gray et al. 1985

FAMILY SKRJABINGYLIDAE

Skrjabingylus chitwoodorum Hill, 1939
Site: nasal sinuses
Hosts: *Mephitis mephitis* (2)
Spilogale putorius gracilis (1)
Dist.: BC, Ont
Records: 1. Cowan 1942 (BC); 2. Lankester and Anderson 1971 exp. (Ont)

Skrjabingylus lutrae Lankester and Crichton, 1972
Site: frontal sinuses
Host: *Lutra canadensis*
Dist.: Ont
Record: Lankester and Crichton 1972

Skrjabingylus magnus Webster, 1965
Site: frontal sinuses
Host: *Mephitis mephitis*
Dist.: Que
Record: Webster 1965

Skrjabingylus nasicola (Leukart, 1842) Petrov, 1927
Site: nasal sinus
Hosts: *Mustela erminea* (2,5)
M. e. anguinae (1)
M. e. richardsonii (4)
M. frenata longicauda (4)
M. vison (3)
Dist.: BC, Man, Nfld, Ont
Records: 1. Swales 1938 (BC); 2. Cowan 1942 (BC); 3. Lankester and Anderson 1971 exp. (Ont); 4. Gamble and Riewe 1982 (Man); 5. Jennings et al. 1982 (Nfld)

Skrjabingylus sp.
Site: unspecified
Host: *Mephitis mephitis*
Dist.: Que
Record: Webster and Beauregard 1965

Unidentified Metastrongyloidea

Metastrongyloidea gen. spp. (larva)
Site: liver
Hosts: *Blarina brevicauda*
Peromyscus maniculatus
Sorex fumeus
Tamias striatus
Dist.: Ont
Record: Lankester and Anderson 1966

SUPERFAMILY STRONGYLOIDEA

FAMILY CHABERTIIDAE

Castorstrongylus castoris Chapin, 1925
Sites: caecum, colon, stomach
Host: *Castor canadensis*
Dist.: Alta, NB, Nfld
Records: Choquette and Pimlott 1956 (Nfld); Smith 1967 (NB); Threlfall 1969 (Nfld); Bush and Samuel 1981 (Alta)

Oesophagostomum venulosum (Rudolphi, 1809) Railliet and Henry, 1913
Site: caecum
Hosts: *Odocoileus hemionus columbianus* (1,2)
O. virginianus (3)
Dist.: BC, Ont
Records: 1. Cowan 1946 (BC), 2. 1951 (BC); 3. Baker and Pursglove 1976 (Ont)

Oesophagostomum sp.
Site: intestine
Host: *Bison bison*
Dist.: Alta
Record: Cameron 1923

SUPERFAMILY TRICHOSTRONGYLOIDEA

FAMILY AMPHIBIOPHILIDAE

Graphidiella ochotonae Olsen, 1948
Site: gastrointestinal tract
Host: *Ochotona princeps*
Dist.: Alta
Record: Hobbs 1980

FAMILY DICTYOCAULIDAE

Dictyocaulus filaria (Rudolphi, 1809) Railliet and Henry, 1907
Site: lungs
Host: *Bison bison*
Dist.: Alta
Record: Cameron 1923

Dictyocaulus hadweni Chapin, 1925
Site: lungs
Hosts: *Alces alces* (2,3,4)
Bison bison (1)
Dist.: Alta, Nfld
Records: 1. Chapin 1925 (Alta); 2. Benson 1958 (Alta); 3. Threlfall 1967 (Nfld), 4. 1969 (Nfld)
Remarks: Dikmans (1936), Olsen and Fenstermacher (1942), and Threlfall (1967) consider this species a synonyn of *Dictyocaulus viviparus*.

Dictyocaulus viviparus (Bloch, 1782) Railliet and Henry, 1907
Sites: lungs, bronchioles
Hosts: *Alces alces* (4,7,12,15,16)
A. a. andersoni (13)
Cervus elaphus (2,4,11,16)
Odocoileus hemionus (2)
O. h. columbianus (3,4)
O. h. hemionus (4)
O. virginianus (10)
Ovibos moschatus (6,8,14)
Ovis canadensis (2)
O. c. canadensis (4)
Rangifer tarandus (9)
R. t. greonlandicus (5)
Dist.: Alta, BC, NWT, Ont, Que, Sask
Records: 1. Erickson and Highby 1942 (Sask); 2. Cowan 1944 (Alta), 3. 1946 (BC), 4. 1951 (Alta, BC); 5. Banfield 1954 (NWT); 6. Durrell

and Bolton 1957 (NWT); 7. Benson 1958 (Alta); 8. Gibbs and Tener 1958 (NWT); 9. Gibbs 1960 (NWT?); 10.Anderson 1962b (Ont); 11. Flook and Stenton 1969 (Alta, BC); 12.Gupta and Gibbs 1971 (Que); 13. Barrett 1972 (Alta); 14. Samuel and Gray 1974 (NWT); 15.Samuel et al. 1976 (Alta); 16. Stock and Barrett 1983 (Alta)

Dictyocaulus spp.
Sites: lung alveoli, bronchioles
Hosts: *Rangifer tarandus caribou* (1)
Alces alces (2,3)
Dist.: BC, Man
Records: 1. Low 1976 (BC); 2. Crichton 1979 (Man), 3. 1980 (Man)
Remarks: Low (1976) believed his *Dictyocaulus* sp. was probably *D. viviparus*.

FAMILY HELIGMOSOMIDAE

Citellinema bifurcatum Hall, 1916
Syn.: *Warrenius bifurcatus* (Hall, 1916) Sleggs, 1925
Site: intestine
Hosts: *Eutamias minimus* (5)
Spermophilus franklinii (5)
S. richardsonii (1,2,3,5)
S. tridecemlineatus (5)
Tamiasciurus hudsonicus (4,5)
T. h. hudsonicus (3)
Dist.: Alta, Man, Sask
Records: 1. Sleggs 1925 (Sask); 2. McLeod 1933 (Man, Sask); 3. Rausch and Tiner 1948 (Man); 4. Mahrt and Chai 1972 (Alta); 5. McGee 1980 (Sask)

Heligmosomoides polygyrus Hall, 1916
Syn.: *Nematospiroides dubius* Baylis, 1926
Site: small intestine
Hosts: *Microtus chrotorrhinus* (1)
Phenacomys intermedius (2)
Dist.: Alta, Nfld, Que
Records: 1. Schad 1954 (Nfld, Que); 2. Lubinsky 1957 (Alta)

Heligmosomum carolinensis (Dikmans, 1940) Skrjabin, 1971
Syn: *Nematospiroides carolinensis* Dikmans, 1940
Site: unspecified
Hosts: *Clethrionomys gapperi* (1)
Ondatra zibethicus (2)
Dist.: Man, Nfld, Que
Records: 1. Schad 1954 (Nfld, Que); 2. McKenzie and Welch 1979 (Man)

Heligmosomum hudsonius Cameron, 1937
Site: unspecified
Host: *Dicrostonyx hudsonius*
Dist.: Nfld, Que
Record: Schad 1954

Heligmosomum muris Yokogawa, 1920
Syn.: *Nippostrongylus muris* (Yokogawa, 1920)
Site: intestine
Host: *Rattus norvegicus*
Dist.: Que
Record: Firlotte 1948

FAMILY MOLINEIDAE

Molineus sp.
Site: unspecified
Host: *Martes pennanti*
Dist.: Man
Record: Dick and Leonard 1979

Murielus harpespiculus Dickmans, 1939
Site: gastrointestinal tract
Host: *Ochotona princeps*
Dist.: Alta
Record: Hobbs 1980

Nematodirella alcidis (Dikmans, 1935) Ivaskin, 1954
Site: small intestine
Hosts: *Alces alces*
Cervus elaphus
Dist.: Alta
Record: Stock and Barrett 1983

Nematodirella longispiculata Yorke and Maplestone, 1926
Site: small intestine
Hosts: *Alces alces* (1,2 Alta,5,6,10)
A. a. andersoni (7)
Cervus elaphus (1)
Odocoileus hemionus columbianus (2)
Ovibos moschatus (3,8)
Rangifer tarandus (4)
R. t. caribou (9)
Dist.: Alta, BC, Nfld, NWT
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Gibbs and Tener 1958 (NWT); 4. Gibbs 1960 (NWT?); 5. Threlfall 1967 (Nfld), 6. 1969 (Nfld); 7. Barrett 1972 (Alta); 8. Samuel and Gray 1974 (NWT); 9. Low 1976 (BC); 10. Samuel et al. 1976 (Alta)
Remarks: Low (1976) reported it as *Nematodirella longissimespiculata* (*N. l. longispiculata*).

Nematodirella longispiculata antilocaprae Dikmans, 1935
Site: intestine
Host: *Odocoileus hemionus columbianus*
Dist.: BC
Record: Cowan 1946

Nematodirella sp.
Site: feces
Host: *Ovibos moschatus*
Dist.: Alta, NWT
Record: Samuel and Gray 1974 (Alta capt., NWT)

Nematodirus archari Sokolova, 1948
Site: small intestine
Host: *Ovis c. canadensis*
Dist.: Alta
Record: Samuel, Hall et al. 1978

Nematodirus davtiani Grigoryan, 1949
Site: small intestine
Hosts: *Oreamnos americanus*
Ovis c. canadensis
Dist.: Alta
Record: Samuel, Hall et al. 1978

Nematodirus filicollis Rudolphi, 1802
Site: small intestine
Hosts: *Odocoileus hemionus columbianus* (2,3)
Oreamnos americanus (1,3)
Ovis canadensis (1)
O. c. canadensis (3)
Dist.: Alta, BC
Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC)

Nematodirus helvetianus May, 1920
Site: small intestine
Hosts: *Cervus elaphus* (4)
Oreamnos americanus (2)
Ovibos moschatus (1,3)
Dist.: Alta, NWT
Records: 1. Samuel and Gray 1974 (NWT); 2. Samuel, Hall et al. 1978 (Alta); 3. Webster and Rowell 1980 (NWT); 4. Stock and Barrett 1983 (Alta)

Nematodirus maculosus Becklund, 1965
Site: small intestine
Host: *Oreamnos americanus*
Dist.: Alta, BC
Records: Becklund 1965 (Alta); Kerr and Holmes 1966 (Alta); Samuel, Hall et al. 1978 (Alta, BC)

Nematodirus odocoilei Becklund and Walker, 1967
Site: small intestine
Hosts: *Odocoileus hemionus* (1)
O. virginianus (2)
Dist.: BC, Que
Records: 1. Becklund and Walker 1967 (BC); 2. Webster and MacKay 1969 (Que)

Nematodirus oiratianus Raevskaia, 1929
Site: small intestine
Host: *Ovis c. canadensis*
Dist.: Alta
Record: Samuel, Hall et al. 1978

Nematodirus spathiger (Railliet, 1896) Railliet and Henry, 1909
Site: small intestine
Host: *Ovis canadensis canadensis*
Dist.: Alta
Record: Samuel, Hall et al. 1978

Nematodirus triangularis Boughton, 1932
Site: duodenum
Host: *Lepus americanus*
Dist.: Man, Nfld
Record: Boughton 1932 (Man); Smith and Threlfall 1973 (Nfld)

Nematodirus spp.
Sites: small intestine, feces
Hosts: *Alces alces* (2)
Oreamnos americanus (5)
Ovibos moschatus (3)
Ovis c. canadensis (1,5)
Rangifer tarandus caribou (4)
Dist.: Alta, BC, NWT, Ont, Que
Records: 1. Cowan 1942 (BC); 2. Peterson 1955 (Ont, Que); 3. Samuel and Gray 1974 (NWT, Que capt., Alta capt.); 4. Low 1976 (BC); 5. Samuel, Hall et al. 1978 (Alta, BC)

Nematodirus spp. larva
Site: feces
Host: *Ovis canadensis californianus*
Dist.: BC
Record: Blood 1963

FAMILY ORNITHOSTRONGYLIDAE

Allintoshius nycticeius Chitwood, 1937
Site: digestive tract
Host: *Myotis volans longicrus*
Dist.: BC
Record: Webster and Casey 1973

FAMILY TRICHOSTRONGYLIDAE

Cooperia oncophora (Railliet, 1898) Ransom, 1907
Site: small intestine
Host: *Cervus elaphus*
Dist.: Alta
Record: Stock and Barrett 1983

Haemonchus contortus (Rudolphi, 1803) Cobbold, 1898
Site: abomasum
Hosts: *Odocoileus hemionus columbianus* (1)
Ovibos moschatus (2,3)
Dist.: Alta, BC, NWT
Records: 1. Cowan 1951 capt. (BC); 2. Durrell and Bolton 1957 (NWT); 3. MacDonald et al. 1976 capt. (Alta)

Haemonchus ostertagi [SIC]
Site: intestine
Host: *Bison bison*
Dist.: Alta
Record: Cameron 1923

Haemonchus placei (Place, 1893)
Site: abomasum
Host: *Ovibos moschatus*
Dist.: NWT
Record: Durrell and Bolton 1957

Marshallagia marshalli (Ransom, 1907) Orlov, 1933
Sites: small intestine, abomasum
Hosts: *Oreamnos americanus* (2,3)
Ovibos moschatus (4)
Ovis canadensis californianus (1,3)
Dist.: Alta, BC, NWT
Records: 1. Blood 1963 (BC); 2. Kerr and Holmes 1966 (Alta); 3. Samuel, Hall et al. 1978 (Alta, BC); 4. Webster and Rowell 1980 (NWT)

Marshallagia spp.
Site: abomasum
Hosts: *Oreamnos americanus* (2)
Ovibos moschatus (1)
Ovis c. canadensis (2)
Dist.: Alta, BC, NWT, Que
Records: 1. Samuel and Gray 1974 (Alta capt., NWT, Que capt.); 2. Samuel, Hall et al. 1978 (Alta, BC)

Obeliscoides cuniculi Graybill, 1924
Site: stomach
Hosts: *Lepus americanus* (1,3)
L. a. struthopus (2)
Dist.: Alta, Nfld
Records: 1. Lubinsky 1957 (Alta); 2. Dodds and Mackiewicz 1961 (Nfld); 3. Keith et al. 1985 (Alta)

Obeliscoides cuniculi cuniculi Graybill, 1926
Site: stomach
Hosts: *Lepus capensis* (1)
Marmota monax (1)
Oryctolagus cuniculus (3)
Sylvilagus floridanus (1,2)
Dist.: Ont
Records: 1. Measures and Anderson 1983a (Ont), 2. 1983b (Ont), 3. 1984 exp. (Ont)

Obeliscoides cuniculi multistriatus Measures and Anderson, 1983
Site: stomach
Hosts: *Lepus americanus* (1,2)
Oryctolagus cuniculus (3)
Dist.: Alta, Ont
Records: 1. Measures and Anderson 1983a (Alta, Ont), 2. 1983b (Alta, Ont), 3. 1984 exp. (Ont)

Ostertagia bisonis Chapin, 1925
Sites: stomach, duodenum
Host: *Bison bison*
Dist.: Alta
Record: Chapin 1925

Ostertagia circumcincta (Stadelmann, 1894) Ransom, 1907
Site: abomasum
Hosts: *Odocoileus hemionus columbianus* (2,3)
Oreamnos americanus (1,3,6,8)
Ovibos moschatus (4)
Ovis canadensis (1)
O. c. californianus (5)
O. c. canadensis (3,8)
Rangifer tarandus caribou (7)
Dist.: Alta, BC, NWT
Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC); 4. Gibbs and Tener 1958 (NWT); 5. Blood 1963 (BC); 6. Kerr and Holmes 1966 (Alta); 7. Low 1976 (BC); 8. Samuel, Hall et al. 1978 (Alta, BC)

Ostertagia dikmansi Becklund and Walker, 1968
Site: abomasum
Host: *Odocoileus virginianus*
Dist.: Ont
Records: Becklund and Walker 1968; Baker and Anderson 1975

Ostertagia marshalli Ransom, 1907
Sites: intestine, stomach
Hosts: *Oreamnos americanus* (1,2)
Ovis canadensis (1)
O. c. canadensis (2)
Dist.: Alta, BC
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC)

Ostertagia mossi Dikmans, 1931
Site: abomasum
Host: *Odocoileus virginianus*
Dist.: Ont
Record: Baker and Anderson 1975

Ostertagia occidentalis Ransom, 1907
Site: abomasum
Hosts: *Oreamnos americanus* (1,2,4,5)
Ovis canadensis (1)
O. c. californianus (3)
O. c. canadensis (2,5)
Dist.: Alta, BC
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Blood 1963 (BC); 4. Kerr and Holmes 1966 (Alta); 5. Samuel, Hall et al. 1978 (Alta)

Ostertagia odocoilei Dikmans, 1931
Site: abomasum
Host: *Odocoileus virginianus*
Dist.: Ont
Records: Walker and Becklund 1970; Baker and Anderson 1975

Ostertagia oreamni (Swales, 1934)
Syn.: *Skrjabinema oreamni* Swales, 1934
Site: intestine
Hosts: *Oreamnos americanus* (1,2)
Rangifer tarandus (1,2)
Dist.: Alta
Record: 1. Swales 1934; 2.Cowan 1951

Ostertagia ostertagi (Stiles,1892) Ransom, 1907
Site: abomasum
Host: *Ovis canadensis californianus*
Dist.: BC
Record: Blood 1963

Ostertagia trifurcata Ransom, 1907
Site: small intestine
Hosts: *Oreamnos americanus* (1,2,4,6)
Ovibos moschatus (7)
Rangifer tarandus (3)
R. t. caribou (5)
Dist.: Alta, BC, NWT
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Choquette et al. 1957 (NWT); 4. Kerr and Holmes 1966 (Alta); 5. Low 1976 (BC); 6. Samuel, Hall et al. 1978 (Alta); 7. Webster and Rowell 1980 (NWT)

Ostertagia spp.
Site: abomasum
Hosts: *Alces alces* (6)
A. a. andersoni (3)
Cervus elaphus (6)
Oreamnos americanus (5)
Ovibos moschatus (4)
Ovis canadensis californiana (2)
O. c. canadensis (5)
Rangifer tarandus (1,2)
Dist.: Alta, BC, NWT, Que
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3.Barrett 1972 (Alta); 4. Samuel and Gray 1974 (Alta capt., NWT, Que capt.); 5. Samuel, Hall et al. 1978 (Alta, BC); 6. Stock and Barrett 1983 (Alta).
Remarks: Stock and Barrett (1983) reported *Skrjabinagia* sp. from this host. *Skrjabinagia* is regarded as a synonym of *Ostertagia*.

Spiculopteragia bohmi (Gebauer, 1932) Orloff, 1933
Site: abomasum
Host: *Odocoileus virginianus*
Dist.: Que
Record: Doster and Friend 1971

Teladorsagia davtiani Andreeva and Satubaldin, 1954
Site: abomasum
Host: *Oreamnos americanus*
Dist.: Alta
Records: Kerr and Holmes 1966; Samuel, Hall et al. 1978

Teladorsagia spp.
Site: abomasum
Hosts: *Oreamnos americanus*
Ovis c. canadensis
Dist.: Alta, BC
Record: Samuel, Hall et al. 1978

Travassosius americanus Chapin, 1925
Sites: stomach, small intestine
Host: *Castor canadensis*
Dist.: Alta, NB, Nfld, NS
Records: Choquette and Pimlott 1956 (Nfld); Smith 1967 (NB); Smith and Archibald 1967 (NS); Bush and Samuel 1978 (Alta), 1981 (Alta)

Trichostrongylus axei (Cobbold, 1879) Railliet and Henry, 1909
Sites: stomach, small intestine, abomasum
Hosts: *Cervus elaphus* (2)
Spermophilus richardsonii (1)
Dist.: Alta, Sask
Records: 1. McGee 1980 (Sask); 2. Stock and Barrett 1983 (Alta)

Trichostrongylus calcaratus Ransom, 1911
Site: caecum
Host: *Ondatra zibethicus obscurus*
Dist.: Nfld
Record: Rigby and Threlfall 1981

Trichostrongylus longispicularis Gorden, 1933
Site: small intestine
Host: *Alces alces*
Dist.: Alta
Record: Stock and Barrett 1983

Trichostrongylus spp.
Site: small intestine
Hosts: *Lepus americanus* (1)
Odocoileus hemionus columbianus (2)
Dist.: BC, Man
Records: 1. Boughton 1932 (Man); 2. Cowan 1946 (BC)

Unidentified Trichostrongylidae

Trichostrongylidae gen. sp.
Site: intestine
Host: *Alces alces*
Dist.: Alta
Record: Samuel et al. 1976
Remarks: Samuel et al. (1976) did not specify the site in which their specimens were found, but presumably it was the intestine.

Unidentified Nematoda

Nematoda gen. spp.
Sites: intestine, lungs
Host: *Lepus americanus*
Dist.: Nfld
Record: Smith and Threlfall 1973

PHYLUM ACANTHOCEPHALA

CLASS ARCHIACANTHOCEPHALA

ORDER GIGANTORHYNCHIDA

FAMILY GIGANTORHYNCHIDAE

Mediorhynchus robustus Van Cleave, 1916
Site: small intestine
Host: *Spermophilus richardsonii*
Dist.: Sask
Record: McGee 1980

ORDER MONILIFORMIDA

FAMILY MONILIFORMIDAE

Moniliformis spiradentatis McLeod, 1933
Sites: stomach, intestine
Host: *Spermophilus tridecemlineatus*
Dist.: Man
Record: McLeod 1933

CLASS PALAEACANTHOCEPHALA

ORDER ECHINORHYNCHIDA

FAMILY ECHINORHYNCHIDAE

Echinorhynchus lateralis Leidy, 1851
Site: gastrointestinal tract
Host: *Lutra canadensis*
Dist.: Nfld
Record: Smith and Threlfall 1972

ORDER POLYMORPHIDA

FAMILY POLYMORPHIDAE

Polymorphus paradoxus Connell and Corner, 1957
Site: small intestine
Hosts: *Castor canadensis* (1)
Microtus pennsylvanicus (2)
Ondatra zibethicus (1)
Dist.: Alta
Records: 1. Connell and Corner 1957; 2. Platt 1978

Polymorphus spp.
Site: intestine
Hosts: *Ondatra zibethicus*
Dist.: BC, Man
Records: Knight 1951 (BC); McKenzie and Welch 1979 (Man)

Unidentified Acanthocephala

Acanthocephala gen. sp.
Site: intestine
Host: *Lepus americanus*
Dist.: Man
Record: Boughton 1932

HOST-PARASITE LIST

CLASS MAMMALIA
INFRACLASS METATHERIA
ORDER MARSUPIALIA

FAMILY DIDELPHIDAE

Didelphis virginiana Kerr — Virginia opossum
NEMATODA
Dracunculus sp. (Ont)

INFRACLASS EUTHERIA
ORDER ARTIODACTYLA

FAMILY ANTILOCAPRIDAE

Antilocapra americana (Ord) — Pronghorn
NEMATODA
Capillaria hepatica (Alta)

FAMILY BOVIDAE

Bison bison (L.) — Bison
PROTOZOA
Sarcocystis sp.cysts (Alta)
TREMATODA
Fascioloides magna (Alta, BC, Que)
CESTOIDEA
Echinococcus granulosus hydatid cyst (Alta, NWT, Ont, Sask, YT)
Echinococcus sp. (Alta)
Moniezia sp. (Alta)
NEMATODA
Dictyocaulus filaria (Alta)
D. hadweni (Alta)
Haemonchus ostertagi (Alta)
Oesophagostomum sp. (Alta)
Ostertagia bisonis (Alta)
Setaria labiatopapillosa (Alta)

Oreamnos americanus (Blainville) Mountain goat
PROTOZOA
Sarcocystis sp. cysts (Alta)
CESTOIDEA
Anoplocephalidae (Alta, BC)
Avitellina sp. (Alta)
Cysticercus tenuicollis (Alta, BC)
Moniezia benedini (Alta)
Taenia hydatigena cysticercus (Alta)
Thysanosoma actinioides (Alta, BC)
NEMATODA
Marshallagia marshalli (Alta, BC)
Marshallagia sp. (Alta, BC)
Nematodirus davtiani (Alta)
N. filicollis (Alta)
N. helvetianus (Alta)
N. maculosus (Alta, BC)
Nematodirus sp. (Alta, BC)
Ostertagia circumcincta (Alta, BC)
O. marshalli (Alta, BC)
O. occidentalis (Alta, BC)
O. oreamni (Alta)
O. trifurcata (Alta, BC)
Ostertagia sp. (Alta, BC)
Parelaphostrongylus odocoilei (Alta)
Protostrongylus rushi (Alta, BC)
P. stilesi (Alta)
Protostrongylus sp. (Alta)
Skrjabinema ovis (Alta)
Teladorsagia davtiani (Alta)
Teladorsagia sp. (Alta, BC)
Trichuris oreamnos (BC)
T. ovis (Alta)
T. schumankovitschi (Alta)
Trichuris sp. (Alta)

Ovibos moschatus (Zimmermann) — Muskox
PROTOZOA
Eimeria faurei (Alta, NWT, Que)
E. granulosa (NWT)
E. moschati (Alta, NWT, Que)
E. oomingmakensis (NWT)
E. ovibovis (Alta, NWT, Que)
E. ovina (Alta, NWT, Que)
Eimeria sp. (Alta, NWT, Que)
Sarcocystis sp. cysts (NWT)
CESTOIDEA
Cysticercus tenuicollis (NWT)
Echinococcus granulosus hydatid cysts (NWT)
Moniezia expansa (NWT)
Moniezia sp. (Alta, NWT)
Taenia hydatigena cysticercus (Alta, NWT)
NEMATODA
Capillaria sp. (Alta)
Dictyocaulus viviparus (NWT)
Haemonchus contortus (Alta, NWT)
H. placei (NWT)
Marshallagia marshalli (NWT)
Marshallagia sp. (Alta, NWT, Que)
Nematodirella longispiculata (NWT)
Nematodirella sp.(Alta, NWT)
Nematodirus helvetianus (NWT)
Nematodirus sp. (Alta, NWT, Que)
Ostertagia circumcincta (NWT)
O. trifurcata (NWT)
Ostertagia sp. (Alta, NWT, Que)
Trichuris sp. (Alta)

Ovis canadensis Shaw — Mountain sheep
PROTOZOA
Sarcocystis sp. cysts (Alta)
CESTODA

Cysticercus tenuicollis (Alta)
Moniezia benedini (Alta)
NEMATODA
Dictyocaulus viviparus (Alta)
Nematodirus filicollis (Alta)
Ostertagia circumcincta (Alta)
O. marshalli (Alta)
O. occidentalis (Alta)
Protostrongylus stilesi (Alta, BC)

Ovis canadensis californiana Douglas
PROTOZOA
Eimeria sp. (BC)
NEMATODA
Marshallagia marshalli (Alta, BC)
Nematodirus sp. larva (BC)
Ostertagia circumcincta (BC)
O. occidentalis (BC)
O. ostertagi (BC)
Ostertagia sp. (BC)
Protostrongylus larva (BC)
Skrjabinema sp. (BC)
Trichuris sp. (BC)

Ovis canadensis canadensis Shaw
PROTOZOA
Eimeria ahsata (Alta, BC)
E. crandallis (Alta, BC)
E. faurei (Alta)
E. granulosa (Alta)
E. intricata (Alta)
E. ninakohlyakimovae (Alta, BC)
E. ovina (Alta, BC)
E. parva (Alta, BC)
CESTOIDEA
Cysticercus tenuicollis (Alta, BC)
Moniezia benedini (Alta, BC)
M. expansa (Alta)
Taenia hydatigena cysticercus (Alta)
Thysanosoma actinioides (BC)
NEMATODA
Dictyocaulus viviparus (Alta)
Marshallagia sp. (Alta)
Nematodirus archari (Alta)
N. davtiani (Alta)
N. filicollis (Alta)
N. oiratianus (Alta)
N. spathiger (Alta)
Nematodirus sp. (Alta, BC)
Ostertagia circumcincta (Alta, BC)
O. marshalli (Alta, BC)
O. occidentalis (Alta, BC)
Ostertagia sp. (Alta)
Protostrongylus rushi (Alta, BC)
P. stilesi (Alta, BC)
Protostronylus sp. larvae (Alta, BC)
Skrjabinema ovis (Alta)
Teladorsagia sp. (Alta)
Trichuris ovis (BC)
T. schumakovitschi (Alta, Can)

Ovis dalli Nelson Dall's sheep
CESTOIDEA
Wyominia tetoni (YT)

FAMILY CERVIDAE

Alces alces (L.) Moose
PROTOZOA
Sarcocystis sp. cysts (Alta, Ont)
TREMATODA
Fascioloides magna (Alta, BC, Man, Ont, Sask)
Paramphistomum cervi (Nfld, Ont, Que)
Paramphistomum spp. (Alta)
Zygocotyle lunata (Alta)
CESTOIDEA
Cestoidea gen. spp. (BC)
Cysticercus tenuicollis (Alta, BC, Nfld)
Cysticercus sp. cyst (BC, NS, Ont, Sask, YT)
Echinococcus granulosus hydatid cyst (Alta, BC, Man, NS, NWT, Ont, Que, Sask, YT)
Moniezia benedini (Alta, BC)
Moniezia sp. (Alta)
Taenia hydatigena cysticercus (Alta, Ont, Sask)
Taenia krabbei cysticercus (Alta, NWT, Ont, Que, Sask, YT)
Taenia ovis / T. krabbei cysticercus (Alta, BC)
Taenia sp. metacestode (Ont)
Thysanosoma actinioides (Alta)
NEMATODA
Dictyocaulus hadweni (Alta, Nfld)
D. viviparus (Alta, BC, Que)
Elaphostrongylus cervi (Ont)
Nematodirella alcidis (Alta)
N. longispiculata (Alta, BC, Nfld)
Nematodirus sp. (Ont, Que)
Onchocerca cervipedis (Alta, BC)
Orthostrongylus macrotis (Alta)
Ostertagia sp. (Alta)
Parelaphostrongylus odocoilei (Alta)
P. tenuis (Man, NB, NS, Ont)
P. tenuis larva (Ont)
Protostrongylus macrotis (Alta)
Setaria labiatopapillosa (Alta)
S. yehi (Alta)
Setaria sp. (Que)
Trichostrongylus longispicularis (Alta)
Trichuris sp. (Alta, BC)
Alces a . americana (Clinton)
NEMATODA
Parelaphostrongylus tenuis (Ont)

Alces a . andersoni Peterson

PROTOZOA
Sarcocystis sp. cyst (Alta)
CESTOIDEA
Echinococcus granulosus hydatid cyst (Alta)
Moniezia sp. (Alta)
Taenia hydatigena cysticercus (Alta)
Taenia krabbei cysticercus (Alta)
Thysanosoma actinioides (Alta)
NEMATODA
Dictyocaulus viviparus (Alta)
Nematodirella longispiculata (Alta)
Onchocerca cervipedis (Alta)
Ostertagia sp. (Alta)
Parelaphostrongylus odocoilei (Alta)
Setaria sp. (Alta)
Trichuris sp. (Alta)

Cervus elaphus L. Wapiti

PROTOZOA
Eucoccidiida gen. sp. (Sask)
Sarcocystis sp. cysts (Alta)
TREMATODA
Fascioloides magna (Alta, BC, Ont, Que, Sask)
CESTOIDEA
Cysticercus tenuicollis (Alta, BC, Ont)
Echinococcus granulosus hydatid cyst (Alta, BC, NWT, Ont, Sask, YT)
Moniezia benedini (Alta)
Taenia hydatigena cysticercus (Alta)
Thysanosoma actinioides (Alta, BC)
NEMATODA
Cooperia oncophora (Alta)
Dictyocaulus viviparus (Alta, BC)
Nematodirella alcidis (Alta)
N. longispiculata (Alta)
Nematodirus helvetianus (Alta)
Orthostrongylus macrotis (Alta)
Ostertagia sp. (Alta)
Parelaphostrongylus tenuis (Ont)
Setaria cervi (Alta)
Trichostrongylus axei (Alta)
Trichuris ovis (Alta)
Trichuris sp. (Alta)

Odocoileus hemionus (Rafinesque) Mule deer

PROTOZOA
Sarcocystis sp. cysts (Alta)
CESTOIDEA
Cysticercus tenuicollis (BC, NWT)
NEMATODA
Dictyocaulus viviparus (Alta)
Nematodirus odocoilei (BC)
Parelaphostrongylus odocoilei (Alta)
Parelaphostrongylus sp. larva (Alta)
Setaria yehi (BC)
Trichuris sp. (Alta)

Odocoileus hemionus columbianus (Richardson)
Syn.: *Odocoileus columbianus* Merriam

TREMATODA
Fasciola hepatica (BC)
Fascioloides magna (Alta, BC, Can)
CESTOIDEA
Cysticercus ovis (BC)
C. tenuicollis (BC)
Cysticercus sp. cyst (Alta, BC)
Echinococcus granulosus hydatid cysts (Alta, BC)
Moniezia benedini (Alta, BC)
Taenia krabbei / *T . ovis* cysticercus (BC)
Thysanosoma actinioides (Alta, BC)
NEMATODA
Capillaria sp. (BC)
Dictyocaulus viviparus (BC)
Elaeophora schneideri (BC)
Haemonchus contortus (BC)
Nematodirella longispiculata (BC)
N. l. antilocaprae (BC)
Nematodirus filicollis (BC)
Onchocerca cervipedis (BC)
Oesophagostomum venulosum (BC)
Ostertagia circumcincta (BC)
Parelaphostrongylus odocoilei (Alta, BC)
Setaria cervi (BC)
Trichostrongylus sp. (BC)
Trichuris ovis (BC)

Odocoileus hemionus hemionus (Rafinesque)

TREMATODA
Fascioloides magna (Alta, BC)
CESTOIDEA
Cysticercus tenuicollis (Alta, BC)
Echinococcus granulosus hydatid cyst (Alta)
Moniezia benedini (Alta, BC)
Thysanosoma actinioides (BC)
NEMATODA
Dictyocaulus viviparus (Alta, BC)
Onchocerca cervipedis (BC)
Parelaphostrongylus odocoilei (Alta)
P. tenuis (Ont)
Varestrongylus alpenae (Sask)

Odocoileus virginianus (Zimmermann) White-tailed deer

PROTOZOA
Sarcocystis sp. cysts (Alta, Ont)
TREMATODA
Fascioloides magna (Alta, BC, Ont, Que)
CESTOIDEA
Echinococcus granulosus hydatid cyst (Alta, NWT, Ont, Sask, YT)
Taenia hydatigena cysticercus (Ont)
NEMATODA
Dictyocaulus viviparus (Ont)

Nematodirus odocoilei (Que)
Oesophagostomum venulosum (Ont)
Onchocerca cervipedis (Ont)
Ostertagia dikmansi (Ont)
O. mossi (Ont)
O. odocoilei (Ont)
Parelaphostrongylus andersoni (BC)
P. tenuis (Man, NB, NS, Ont, Que, Sask)
P. tenuis larva (Ont)
Setaria tundra (Ont)
Spiculopteragia bohmi (Que)
Varestrongylus alpenae (Sask)

Odocoileus virginianus borealis Miller
NEMATODA
Elaphostrongylus odocoilei (Ont)
Parelaphostrongylus tenuis (Ont)

Odocoileus virginianus dacotensis Goldman and Kellogg
NEMATODA
Parelaphostrongylus tenuis larva (Alta)

Odocoileus virginianus ochrourus Bailey
CESTOIDEA
Cysticercus tenuicollis (BC)

Odocoileus sp.
CESTOIDEA
Taenia hydatigena cysticercus (Alta, BC, Ont, Que)

Rangifer tarandus (L.) Caribou
PROTOZOA
Besnoitia sp. (NWT)
Sarcocystis sp. cyst (NWT)
CESTOIDEA
Avitellina arctica (NWT)
Cysticercus tarandi (NWT)
C. tenuicollis (Alta, BC, NWT)
Cysticercus sp. cyst (Alta, BC)
Echinococcus granulosus hydatid cyst (Alta, NWT, Ont, Sask, YT)
Moniezia expansa (Sask)
Moniezia sp. (NWT)
Taenia hydatigena cysticercus (NWT)
T. krabbei cysticercus (Alta, NWT, Sask)
T. ovis / *T. krabbei* cysticercus (Alta)
NEMATODA
Dictyocaulus viviparus (NWT)
Elaphostrongylus cervi (Ont)
Nematodirella longispiculata (NWT)
Ostertagia oreamni (Alta)
O. trifurcata (NWT)
Ostertagia spp. (Alta)
Setaria cervi (Sask)
S. yehi (NWT)

Rangifer tarandus caribou (Gmelin)
PROTOZOA
Amoebae (BC)
Besnoitia sp. (Sask)
Sarcocystis sp. cyst (Sask)
TREMATODA
Fascioloides magna (Que)
CESTOIDEA
Moniezia sp. (BC)
NEMATODA
Dictyocaulus sp. (BC)
Elaphostrongylus cervi (Nfld)
E. cervi larva (Man, Nfld)
Nematodirella longispiculata (BC)
Nematodirus sp. (BC)
Onchocerca sp.(BC)
Ostertagia circumcincta (BC)
O. trifurcata (BC)
Parelaphostrongylus tenuis larva (NS)
Protostrongylus larva (Man, Ont)

Rangifer tarandus groenlandicus (L.)
CESTOIDEA
Echinococcus granulosus hydatid cyst (Man)
Taenia hydatigena cysticercus (not specified)
T. krabbei cysticercus (NWT, Ont, Sask, YT)
T. ovis cysticercus (NWT)
NEMATODA
Dictyocaulus viviparus (NWT)
Elaphostrongylus cervi larva (Man, Nfld)

Rangifer tarandus tarandus L.
NEMATODA
Parelaphostrongylus tenuis (Ont)

Rangifer tarandus terraenovae (Gmelin)
CESTOIDEA
Cysticercus tenuicollis (Nfld)
NEMATODA
Parelaphostrongylus tenuis (Ont)

Rangifer sp.
NEMATODA
Skrjabinema oreamni (Alta)

CERVIDAE OF UNDETERMINED SPECIES

Barren-ground caribou
PROTOZOA
Besnoitia sp. (NWT)

Deer
TREMATODA
Fascioloides magna (Ont)
CESTOIDEA
Cysticercus tenuicollis (Ont)

Echinococcus granulosus hydatid cyst (Ont)
Taenia hydatigena cysticercus (Alta)

Elk
TREMATODA
Fascioloides magna (Ont)

Moose
PROTOZOA
Sarcocystis sp. cyst (not specified)
TREMATODA
Fascioloides magna (Ont)
CESTOIDEA
Cysticercus tarandi (Ont)
C. tenuicollis (Ont)
Echinococcus granulosus hydatid cyst (Man, Ont)
Taenia hydatigena cysticercus (Man)
T. krabbei cysticercus (Man)
NEMATODA
Dictyocaulus sp. (Man)
Setaria sp. (Man)

Reindeer
CESTOIDEA
Echinococcus granulosus hydatid cyst (Alta, NWT, Ont, Sask, YT)

ORDER CARNIVORA

FAMILY CANIDAE

Alopex lagopus (L.) Arctic fox
PROTOZOA
Coccidia (NWT)
Eucoccidiida gen. sp. (NWT)
CESTOIDEA
Echinococcus multilocularis (NWT)
Taenia crassiceps (NWT)
T. polyacantha (NWT)
NEMATODA
Toxascaris leonina (NWT)
Trichinella spiralis cyst (NWT)

Canis latrans Say Coyote
PROTOZOA
Toxoplasma gondii (Ont)
TREMATODA
Alaria americana (Alta, Ont)
A. arisaemoides (Alta, Man, Ont)
A. marcianae (Man)
Metorchis conjunctus (Alta)
Paragonimus kellicotti (Ont)
CESTOIDEA
Diphyllobothrium sp. (Alta)
Echinococcus granulosus (Alta, Man, Ont)
E. multilocularis (Man)
Mesocestoides kirbyi (Alta)
Mesocestoides sp. (Ont)
Taenia hydatigena (Alta, Man, Ont)
T. krabbei (Alta)
T. laticollis (Ont)
T. multiceps (Alta)
T. pisiformis (Alta, Man, Ont)
T. twitchelli (Alta)
Taenia sp.(Man)
NEMATODA
Ancylostoma caninum (Alta)
Capillaria aerophila (Alta)
C. hepatica (Sask)
C. plica (Ont)
Capillaria sp. (not specified)
Dioctophyma renale (Alta)
Oslerus osleri (Alta, Man, Ont)
Physaloptera sp. (not specified)
Toxocara canis (Alta)
Toxascaris leonina (Alta, Man)
Trichinella spiralis larva (BC, Que)

Canis lupus L. Gray wolf
TREMATODA
Alaria americana (Alta, Ont, YT)
A. arisaemoides (Man, NWT, YT)
A. canis (Ont)
A. marcianae (Man, Que)
Metorchis conjunctus (Alta, Sask)
CESTOIDEA
Diphyllobothrium sp. (Alta, NWT, Ont)
Echinococcus granulosus (Alta, Man, NWT, Ont, Que, YT)
Mesocestoides kirbyi (Alta, YT)
Taenia crassiceps (Man, Ont)
T. hydatigena (Alta, Man, NWT, Ont, Que, YT)
T. krabbei (Alta, NWT, Ont, YT)
T. laticollis (Ont)
T. multiceps (Alta)
T. omissa (Alta)
T. pisiformis (Alta, NWT, Ont)
T. serialis (NWT, YT)
T. taeniaeformis (Alta)
Taenia sp. (Man, NWT, Ont, Que, YT)
NEMATODA
Capillaria aerophila (Alta)
Dioctophyma renale (Que)
Oslerus osleri (Man, Ont)
Spirocerca arctica (NWT)
S. lupi (NWT)
Toxocara canis (Alta)
Toxascaris leonina (Alta, Man, NWT, YT)
Trichinella spiralis larva (Alta, NWT, Que, YT)
Trichinella sp. (Alta)

Vulpes vulpes (L.) Red fox
Syn.: *Vulpes fulva* De Kay
PROTOZOA
Toxoplasma gondii (Ont)
TREMATODA
Alaria alata (Man, PEI, Que)
A. americana (NB, NS, Ont, PEI, Que)
A. arisaemoides (Man, NB, NS, Ont)
A. marcianae (Sask)
A. mustelae (NB, NS, Ont)
Cryptocotyle lingua (NB, NS)
Echinostoma revolutum (NB, NS)
Metorchus conjunctus (NB, NS)
Paragonimus kellicotti (Ont)
Phagicola longa (Ont, Que)
CESTOIDEA
Diphyllobothrium cordatum (Ont)
D. latum (Man, Ont)
Diphyllobothrium sp. (Ont)
Dipylidium caninum (Que)
Echinococcus multilocularis (Man, Sask)
Mesocestoides sp. (Ont)
Taenia crassiceps (Man, NB, NS, Ont)
T. pisiformis (Ont)
Taenia sp.(Man, Ont)
NEMATODA
Ancylostoma caninum (Que)
Capillaria aerophila (NB, NS, Ont)
C. plica (Ont)
Crenosoma decoratum (Ont)
C. vulpis (NB, Nfld, NS, Ont)
Toxascaris leonina (Man, Ont, Que)
Toxocara canis (Man, NB, NS, Ont)
Trichinella spiralis cyst/larva (Que)
Trichuris vulpis (Que)

CANIDAE OF UNDETERMINED SPECIES

Coyote x Dog
CESTOIDEA
Taenia crassiceps (Ont)
T. pisiformis (Ont)
NEMATODA
Oslerus osleri (Ont)

Red fox
CESTOIDEA
Taenia crassiceps (Ont)
NEMATODA
Crenosoma sp. (Ont)

FAMILY FELIDAE

Felis concolor L. Mountain lion
CESTOIDEA
Taenia hydatigena (Alta)
T. omissa (Alta, BC)
NEMATODA
Trichinella spiralis larva (BC)
Trichinella sp. larva (Alta)

Felis concolor vancouverensis Nelson and Goldman
CESTOIDEA
Taenia hydatigena (BC)
T. taeniaeformis (BC)

Lynx canadensis Kerr Lynx
Syn.: *Lynx lynx* (L.)
TREMATODA
Alaria americana (Ont)
A. canis (Ont)
Alaria sp. (Alta, NWT)
CESTOIDEA
Multiceps sp. (Alta, NWT)
Taenia laticollis (Alta, BC, Nfld, NWT)
T. macrocystis (Nfld)
T. pisiformis (Alta, NWT)
T. rileyi (Alta, BC, NWT)
Taenia sp. (Alta, NWT)
NEMATODA
Cylicospirura subaequalis (Alta, Nfld, NWT)
Physaloptera praeputialis (Alta)
Physaloptera sp. (Ont)
Toxocara cati (Alta, NWT, Ont)
Toxascaris leonina (Alta, Nfld, NWT)
Trichinella spiralis larva (BC)
Troglostrongylus wilsoni (Alta, NWT)

Lynx rufus (Schreber) Bobcat
TREMATODA
Alaria americana (Ont)
A. canis (Ont)
CESTOIDEA
Taenia laticollis (BC)
T. macrocystis (NB, NS)
T. rileyi (BC)
NEMATODA
Trichinella spiralis cyst (BC, Que)

Lynx rufus fasciatus Rafinesque
CESTOIDEA
Taenia taeniaeformis (BC)
NEMATODA
Toxascaris leonina (BC)

FAMILY MUSTELIDAE

Gulo gulo (L.) Wolverine
TREMATODA
Alaria sp. (NWT)
CESTOIDEA
Diphyllobothrium sp. (NWT)
Taenia martis (NWT)
T. twitchelli (NWT)

NEMATODA
Baylisascaris devosi (NWT)
Physaloptera sp. (NWT)
Trichinella spiralis cyst (BC, Man)

Lutra canadensis Schreber — River otter
TREMATODA
Alaria americana mesocercaria (Ont)
CESTOIDEA
Schistocephalus solidus plerocercoid (Nfld)
NEMATODA
Dracunculus lutrae (Ont)
Dracunculus sp. (Ont)
Skrjabingylus lutrae (Ont)
ACANTHOCEPHALA
Echinorhynchus lateralis (Nfld)

Lutra canadensis canadensis (Schreber)
NEMATODA
Filaroides canadensis (Ont)
Gnathostoma miyazakii (Ont)

Martes americana (Turton) — Marten
TREMATODA
Alaria taxideae (Man, NWT)
CESTOIDEA
Mesocestoides sp. (Ont)
Taenia martis (NWT, Ont)
T. mustelae (Man, NWT)
Taenia sp. (Man, NWT)
NEMATODA
Baylisascaris devosi (Man)
Capillaria aerophila (Ont)
C. putorii (Ont)
Trichinella spiralis cyst (BC, Man, Que)
Trichinella sp. larva (Man)

Martes americana actuosa (Osgood)
TREMATODA
Alaria taxideae (NWT)
CESTOIDEA
Taenia martis (NWT)
T. mustelae (NWT)

Martes americana americana (Turton)
NEMATODA
Baylisascaris devosi (Ont)

Martes martes L. — Pine marten
PROTOZOA
Toxoplasma gondii (Ont)

Martes pennanti (Erxleben) — Fisher
PROTOZOA
Toxoplasma gondii (Ont)
TREMATODA
Alaria americana (Ont)
A. mustelae (Man)
Alaria sp. (Ont)
Echinostoma sp. (Ont)
Metorchis conjunctus (Man)
CESTOIDEA
Echinococcus granulosus (Ont)
Taenia sibirica (Man)
NEMATODA
Baylisascaris devosi (Man)
Capillaria plica (Ont)
C. putorii (Ont)
Crenosoma petrowi (Ont)
Dracunculus insignis (Ont)
Molineus sp. (Man)
Physaloptera sp. (Man)
Sobolevingylus sp. (Ont)
Trichinella spiralis (Man)
Trilobostrongylus bioccai (Ont)

Martes pennanti pennanti (Erxleben)
NEMATODA
Baylisascaris devosi (Ont)
Trilobostrongylus bioccai (Ont)

Mephitis mephitis (Schreber) — Striped skunk
PROTOZOA
Toxoplasma gondii (Alta, Ont, Sask)
TREMATODA
Alaria canadensis (Que)
Apophallus sp. (Que)
Euryhelmis pyriformis (Que)
Fibricola cratera (Que)
Paragonimus kellicotti (Ont)
CESTOIDEA
Mesocestoides latus (Que)
Oochoristica oklahomensis (Que)
NEMATODA
Andersonstrongylus captivensis (Ont)
Arthrocephalus lotoris (Que)
Baylisascaris columnaris (Ont, Que)
B. devosi (Ont)
Capillaria plica (Ont)
C. procyonis (Ont)
C. putorii (Ont)
Crenosoma mephitidis (Ont, Que)
Dipetalonema mephitis (Ont, Que)
D. mephitis microfilaria (Ont, Que)
Dracunculus insignis (Ont)
Filaroides martis (Que)
F. mephitis (Ont)
Physaloptera maxillaris (Ont, Que)
Physaloptera sp. (Que)
Placoconus lotoris (Que)
Skrjabingylus chitwoodorum (Ont)
S. magnus (Que)
Skrjabingylus sp. (Que)
Trichinella spiralis larva (BC)

Mustela erminea L. Ermine
CESTOIDEA
Taenia mustelae (Nfld, Ont)

NEMATODA
Aelurostrongylus pridhami (Nfld)
Capillaria putorii (Ont)
Capillaria sp. larva (Nfld)
Dracunculus sp. (Ont)
Skrjabingylus nasicola (BC, Nfld)

Mustela erminea anguinae Hall
NEMATODA
Skrjabingylus nasicola (BC)

Mustela erminea richardsonii Bonaparte
NEMATODA
Skrjabingylus nasicola (Man)

Mustela frenata Lichtenstein Long-tailed weasel
NEMATODA
Trichinella spiralis larva (BC)

Mustela frenata longicauda Bonaparte
NEMATODA
Skrjabingylus nasicola (Man)

Mustela putorius (L.) Ferret (Lab)
PROTOZOA
Eimeria mustelae (Ont)
TREMATODA
Alaria americana mesocercaria (Ont)

CESTOIDEA
Taenia mustelae (Ont)
T. mustelae metacestode (Ont)
NEMATODA
Baylisascaris devosi (Ont)

Mustela vison Schreber Mink
PROTOZOA
Eimeria mustelae (Ont)
Hepatozoon sp. (Ont)
Toxoplasma gondii (Ont)
TREMATODA
Alaria craterum (Ont)
A. mustelae (Ont)
Euparyphium inerme (Ont)
E. melis (Ont)
Hemistomum craterum (Ont)
Nanophyetus salmincola (Ont)
Paragonimus kellicotti (Ont)
Paragonimus sp. (Ont)
Parametorchis canadensis (Ont)
Plagiorchis proximus (Ont)
CESTOIDEA
Mesocestoides sp. (Ont)
Taenia mustelae (Nfld, Ont)
T. mustelae metacestode (Ont)
Taenia sp. (Ont)

NEMATODA
Aelurostrongylus pridhami (Nfld, Ont)
Ascaris sp. (Ont)
Capillaria mustelorum (Nfld)
C. putorii (Ont)
Capillaria sp. (Ont)
Dioctophyma renale (Man, Ont, Que)
Dracunculus insignis (Ont)
Dracunculus sp. (Ont)
Filaria sp. (Ont)
Filaroides bronchialis (Ont)
F. martis (Ont)
Oslerus sp. (Ont)
Skrjabingylus nasicola (Ont)
Strongyloides sp. (Ont)
Trichinella spiralis larva (BC)

Mustela vison vison Schreber
NEMATODA
Aelurostrongylus pridhami (Ont)
Crenosoma hermani (Ont)
Filaroides martis (Ont)

Spilogale putorius gracilis MerriamSpotted skunk
Syn.: *Spilogale gracilis olympica* Merriam
NEMATODA
Skrjabingylus chitwoodorum (BC)

Taxidea taxus (Schreber) Badger
PROTOZOA
Sarcocystis campestris (Sask)
NEMATODA
Ascaris sp. (Alta)
Crenosoma petrowi (Ont)
Dracunculus sp. (Man)
Physaloptera sp. (Alta)

MUSTELIDAE OF UNDETERMINED SPECIES

Ferret
TREMATODA
Alaria americana (Ont)
A. arisaemoides mesocercaria (Ont)

Mink
TREMATODA
Dicrocoelium dendriticum (PEI)
Paragonimus kellicotti (Ont)
Paragonimus sp. (Can)
NEMATODA
Dioctophyma renale (Ont)
Dracunculus insignis (Ont)
Filaroides martis (Ont)

Otter
NEMATODA
Dracunculus insignis (Ont)

FAMILY PROCYONIDAE

Procyon lotor (L.) Raccoon
PROTOZOA
Toxoplasma gondii (Ont)
TREMATODA
Apophallus venustus (Can, Ont)
Fibricola laruei (Que)
Pharyngostomoides adenocephala (Ont)
P. procyonis (Ont)
NEMATODA
Ascaris sp. (Ont)
Capillaria plica (Ont)
C. procyonis (Ont)
C. putorii (Ont)
Capillaria sp. (Ont)
Crenosoma goblei (Ont)
Dracunculus insignis (Ont)
Dracunculus sp. (Ont)
Physaloptera sp. (Ont, Que)
Placoconus lotoris (Que)
Trichinella spiralis cyst/larva (Que)
T. s. var. *pseudospiralis* (Man)
Trichinella sp. (Man)

Procyon lotor hirtus Nelson and Goldman
TREMATODA
Alaria marcianae (Sask)
Microphallus sp. (Sask)
Pharyngostomoides adenocephala (Sask)
Plagiorchus elegans (Sask)
CESTOIDEA
Atriotaenia procyonis (Sask)
NEMATODA
Physaloptera sp. (Sask)

PROCYONIDAE OF UNDETERMINED SPECIES

Raccoon
NEMATODA
Dracunculus insignis (Ont)

FAMILY URSIDAE

Ursus americanus Pallas Black bear
PROTOZOA
Eucoccidiida gen. sp. (Que)
Eimeria albertensis (Alta)
E. borealis (Alta)
Toxoplasma gondii (Ont)
TREMATODA
Alaria americana (Ont)
CESTOIDEA
Diphyllobothrium ursi (Que)
D. ursi eggs (Que)
Diphyllobothrium sp. egg (Que)
Taenia hydatigena (Alta, Que)
T. krabbei (Alta, Ont, Que)
Taeniid ova (Que)
NEMATODA
Ascarid gen. sp. egg (Que)
Ascaris sp. (Que)
Baylisascaris transfuga (Alta, Ont, Que)
B. transfuga egg (Que)
Crenosoma petrowi (Ont)
C. potos (Ont)
C. vulpis (Ont)
Crenosoma sp. (Ont)
Dirofilaria ursi (Alta, Ont, Que)
D. ursi microfilaria (Ont)
D. ursi ova (Que)
Physaloptera rara (Ont)
Trichinella spiralis cyst/larva (BC, Que)
Trichinella sp. larva (Ont)
Uncinaria yukonensis (Que, YT)

Ursus americanus americanus Pallus
NEMATODA
Dirofilaria ursi (Ont, Que)

Ursus americanus vancouveri Hall
NEMATODA
Toxascaris transfuga (BC)

Ursus arctos L. Grizzly bear
CESTOIDEA
Diphyllobothrium ursi (BC, YT)
Taenia krabbei (NWT, YT)
NEMATODA
Baylisascaris transfuga (BC, NWT?, YT?)
Dirofilaria ursi (BC, YT)
Trichinella spiralis larva (BC, NWT, YT)
Trichinella sp. larva (Alta)
Uncinaria yukonensis (NWT, YT)

Ursus maritimus Phipps Polar bear
NEMATODA
Trichinella spiralis (Man)
T. spiralis cyst (Man, Nfld)

ORDER CHIROPTERA

FAMILY VESPERTILIONIDAE

Eptesicus fuscus Big brown bat
(Palisot de Beauvois)
PROTOZOA
Trypanosoma hedricki (Ont)
TREMATODA

Acanthatrium eptesici (BC)
Plagiorchis vespertilionis (BC)
Plagiorchis sp. (BC)
Prosthodendrium macnabi (BC)
Prosthodendrium sp. (BC)
CESTOIDEA
Hymenolepis gertschi (BC)
NEMATODA
Litomosoides guiterasi (BC)
Rictularia lucifugus (BC)

Lasionycteris noctivagans (Le Conte) Silver-haired bat
TREMATODA
Acanthatrium nycteridis (BC)
Plagiorchis vespertilionis (BC)
Plagiorchis sp. (BC)
Prosthodendrium macnabi (BC)
Prosthodendrium sp. (BC)

Lasiurus cinereus (Palisot de Beauvois) Hoary bat
TREMATODA
Limatulum gastroides (BC)
Plagiorchis vespertilionis (BC)
Prosthodendrium silvai (BC)
Prosthodendrium sp. (BC)
CESTOIDEA
Cestoidea gen. sp. (BC)

Myotis californicus (Audubon and Bachman) California bat
TREMATODA
Plagiorchis vespertilionis (BC)

Myotis lucifugus (Le Conte) Little brown bat
PROTOZOA
Trypanosoma myoti (Ont)
TREMATODA
Lecithodendrium anticum (not specified)
L. posticum (not specified)
Plagiorchis vespertilionis (BC)
Prosthodendrium swansoni (BC)
Prosthodendrium sp. (BC)
CESTOIDEA
Hymenolepis sp. (BC)
NEMATODA
Capillaria eubursata (BC)
Rictularia lucifugus (BC)
Rictularia sp. (BC)

Myotis volans longicrus (True) Long-legged bat
TREMATODA
Plagiorchis vespertilionis (BC)
Prosthodendrium naviculum (BC)
NEMATODA
Allintoshius nycticeius (BC)
Rictularia lucifugus (BC)

Myotis yumanensis saturatus Miller Yuma bat
Syn.: *Myotis saturatus* Miller
PROTOZOA
Trypanosoma evotomys (BC)

ORDER INSECTIVORA

FAMILY SORICIDAE

Blarina brevicauda (Say) Short-tailed shrew
PROTOZOA
Toxoplasma gondii (Ont)
Trypanosoma soricis (Ont)
NEMATODA
Metastrongyloidea gen. sp. larva (Ont)

Sorex cinereus Kerr Masked shrew
NEMATODA
Capillaria plica (Que)

Sorex fumeus Miller Smoky shrew
NEMATODA
Metastrongyloidea gen. sp. larva (Ont)

Sorex vagrans Baird Vagrant shrew
PROTOZOA
Trypanosoma soricis (BC)
NEMATODA
Trichinella spiralis larva (BC)

ORDER LAGOMORPHA

FAMILY LEPORIDAE

Lepus americanus Erxleben Snowshoe rabbit
PROTOZOA
Eimeria athabascensis (Alta)
E. holmesi (Alta)
E. keithi (Alta)
E. leporis (Alta)
E. robertsoni (Alta)
E. rochesterensis (Alta)
E. rowani (Alta)
E. ruficaudati (Alta)
E. townsendi (Alta)
Eimeria sp. (Man)
CESTOIDEA
Cittotaenia pectinata americana (Man)
Taenia macrocystis larva (NB, NS)
T. pisiformis cysticercus (Alta, Man, Nfld)
T. serialis coenurus (Alta, Man, Nfld)
NEMATODA
Dirofilaria scapiceps (Alta, NWT, Ont)
Nematoda gen. sp. (Nfld)
Nematodirus triangularis (Man, Nfld)
Obeliscoides cuniculi (Alta)
O. c. multistriatus (Alta, Ont)

Passalurus nonanulatus (Man)
Protostrongylus boughtoni (Alta, Man, NB, Ont, Que)
Strongyloides papillosus (Man)
Synthetocaulus leporis (Man)
Trichostrongylus sp. (Man)
Trichuris leporis (Man)
ACANTHOCEPHALA
Acanthocephala gen. sp. (Man)

Lepus americanus americanus Erxleben
NEMATODA
Protostrongylus boughtoni (Alta)

Lepus americanus pallidus Cowan
CESTOIDEA
Taenia serialis cysts (BC)

Lepus americanus struthopus Bangs
TREMATODA
Dicrocoelium dendriticum (Nfld)
CESTOIDEA
Cittotaenia pectinata (Nfld)
Multiceps sp. cyst (Nfld)
Taenia pisiformis cysticercus (Nfld)
T. taeniaformis cysticercus (Nfld)
NEMATODA
Dirofilaria scapiceps (NB)
Obeliscoides cuniculi (Nfld)

Lepus capensis L. Cape hare
NEMATODA
Dirofilaria scapiceps (Ont)
Obeliscoides cuniculi cuniculi (Ont)

Oryctolagus cuniculus (L.) Lab rabbit
Syn.: *Lepus cuniculus* L.
TREMATODA
Fascioloides magna (Alta, BC)
NEMATODA
Dirofilaria scapiceps (Ont)
Obeliscoides cuniculi cuniculi (Ont)
O. c. multistriatus (Ont)
Protostrongylus boughtoni (Alta)

Sylvilagus floridanus (Allen) Eastern cottontail
PROTOZOA
Toxoplasma gondii (Ont)
NEMATODA
Dirofilaria scapiceps (Ont)
Obeliscoides cuniculi cuniculi (Ont)

Sylvilagus nuttallii (Bachman) Cottontail
Syn.: *Lepus sylvaticus* Allen
PROTOZOA
Trypanosoma leporis-sylvaticus (Alta)

FAMILY OCHOTONIDAE

Ochotona collaris (Nelson) Collared pika
PROTOZOA
Eimeria banffensis (Alta, YT)
E. barretti (Alta, YT)
E. calentinei (Alta, YT)
E. circumborealis (Alta, YT)
E. klondikensis (Alta, YT)
E. princepsis (Alta, YT)
Isospora marquardti (Alta, YT)
I. yukonensis (YT)
CESTOIDEA
Schizorchis caballeroi (YT)
NEMATODA
Cephaluris alaskensis (Alta, YT)
Cephaluris coloradensis (Alta, YT)
Labiostomum rauschi (YT)
L. talkeetnaeuris (YT)

Ochotona princeps (Richardson) Pika
PROTOZOA
Eimeria barretti (Alta, YT)
E. calentinei (Alta, YT)
E. circumborealis (Alta, YT)
E. klondikensis (Alta, YT)
E. princepsis (Alta, YT)
E. worleyi (Alta)
Eucoccidiida gen. sp. (Alta)
Isospora marquardti (Alta, YT)
CESTOIDEA
Schizorchis caballeroi (Alta)
S. ochotonae (Alta)
NEMATODA
Cephaluris alaskensis (Alta, YT)
Graphidiella ochotonae (Alta)
Labiostomum coloradensis (Alta)
Murielus harpespiculus (Alta)
Physaloptera bispiculata (Alta)

LAGOMORPHA OF UNDETERMINED SPECIES

Cottontail
CESTOIDEA
Cysticercus pisiformis (Ont)

Lab rabbit
TREMATODA
Diplostomum spathaceum (Ont)
CESTOIDEA
Cysticercus pisiformis (Ont)

Rabbit
PROTOZOA
Eucoccidiida gen. sp. (Ont)
CESTOIDEA
Cysticercus pisiformis (Ont)

Unidentified Leporidae
PROTOZOA
Trypanosoma evotomys (BC)

Varying hare
CESTOIDEA
Cysticercus pisiformis (Ont)
Multiceps serialis (Ont)

ORDER RODENTIA

FAMILY CASTORIDAE

Castor canadensis Kuhl Beaver
TREMATODA
Echinostoma revolutum (NS)
Stephanoproraoides lawi (NS, Ont)
Stichorchis subtriquetrus (Alta, Nfld, NS, Ont, Que)
NEMATODA
Castorstrongylus castoris (Alta, NB, Nfld)
Dipetalonema sprenti (Ont)
D. sprenti microfilaria (Ont)
Travassosius americanus (Alta, NB, Nfld, NS)
ACANTHOCEPHALA
Polymorphus paradoxus (Alta)

Castor canadensis leucodontus Gray
TREMATODA
Stichorchis subtriquetrum (BC)

FAMILY CAVIIDAE

Cavia porcellus L. Guinea pig
TREMATODA
Fascioloides magna (Alta, BC)
NEMATODA
Anisakis sp. (Que)
Parelaphostrongylus tenuis (Ont)

FAMILY ERETHIZONTIDAE

Erethizon dorsatum (L.) Porcupine
TREMATODA
Schistosomatium douthitti (Ont)
S. douthitti ova (Ont)

FAMILY GEOMYIDAE

Thomomys talpoides (Richardson) Northern pocket gopher
CESTOIDEA
Paranoplocephala variabilis (Alta)
Taenia mustelae metacestode (Alta)
NEMATODA
Capillaria hepatica (Alta)
Litomosoides carinii (Alta)
Protospirura ascaroidea (Alta)
Trichuris fossor (Alta)

FAMILY MURIDAE

Clethrionomys gapperi (Vigors) Gapper's red-backed vole
TREMATODA
Plagiorchis sp. (Lab, Que)
CESTOIDEA
Andrya communis (Alta)
A. macrocephala (Alta, Nfld, Que)
Andrya sp. (Nfld, Que)
Catenotaenia dendritica (Alta, Nfld, Que)
Cestoidea gen. sp. (Nfld, Que)
Cladotaenia globifera metacestode (Ont)
C. mirsoevi (Alta)
Hymenolepis horrida (Alta, Nfld, Que)
Paruterina rauschi metacestode (Ont)
Taenia mustelae metacestode (Alta, Ont, Que)
NEMATODA
Capillaria hepatica (Man, Ont)
Heligmosomum carolinensis (Nfld, Que)
Protospirura muris (Alta, Nfld, Ont)

Clethrionomys g. gapperi (Vigors)
NEMATODA
Capillaria hepatica (Ont)

Clethrionomys gapperi saturatus (Rhoads)
PROTOZOA
Trypanosoma evotomys (BC)

Clethrionomys sp.
CESTOIDEA
Cladotaenia mirsoevi (Alta)

Dicrostonyx groenlandicus (Traill) Collared lemming
NEMATODA
Pelodera strongyloides larva (NWT)

Dicrostonyx groenlandicus richardsoni Merriam
CESTOIDEA
Andrya arctica (Man)
Taenia crassiceps cysticercus (Man)

Dicrostonyx hudsonius (Pallas) Labrador collared lemming
CESTOIDEA
Paranoplocephala variabilis (Nfld, Que)
NEMATODA
Heligmosomum hudsonius (Nfld, Que)

Dicrostonyx torquatus (Pallas) Collared lemming
CESTOIDEA
Andrya arctica (NWT)
Taenia crassiceps cysticercus (NWT)

Lemmus sibiricus Kerr — Brown lemming
Syn.: *Lemmus trimucronatus* (Richardson)
NEMATODA
Pelodera strongyloides larva (NWT)

Lemmus sibiricus trimucronatus (Richardson)
Syn.: *Lemmus trimucronatus trimucronatus* (Richardson)
CESTODA
Paranoplocephala lemmi (NWT)

Meriones unguiculatus (Milne-Edwards, 1867) — Gerbil
CESTOIDEA
Echinococcus multilocularis hydatid cyst(Que)
E. multilocularis sibiricensis (Que)
Taenia crassiceps cysticercus (Man)

Mesocricetus auratus (Waterhouse, 1840) — Golden hamster
PROTOZOA
Giardia mesocricetus (Ont)
G. microti (Ont)
G. muris (Ont)
NEMATODA
Trichinella spiralis (Man)

Microtus chrotorrhinus (Miller) — Rock vole
CESTOIDEA
Andrya bairdi (Nfld, Que)
A. macrocephala (Alta, Nfld, Que)
Hymenolepis horrida (Que)
NEMATODA
Heligmosomoides polygyrus (Nfld, Que)

Microtus ochrogaster (Wagner) — Prairie vole
Syn.: *Pedomys ochrogaster* (Wagner)
CESTOIDEA
Andrya macrocephala (Alta)
Taenia mustelae metacestode (Alta)

Microtus pennsylvanicus (Ord) — Meadow vole
PROTOZOA
Giardia microti (Ont)
Trypanosoma microti (Ont)
TREMATODA
Plagiorchis muris (Nfld, Que)
Quinqueserialis quinqueserialis (Nfld, Que)
Schistosomatium douthitti (Man)
CESTOIDEA
Andrya communis (Alta)
A. macrocephala (Alta, Nfld, Que)
Cladotaenia globifera metacestode (Man)
Echinococcus multilocularis hydatid cyst (Sask)
Hymenolepis horrida (Alta)
Paranoplocephala infrequens (Alta, Nfld, Que)
P. variabilis (Alta, Nfld, Que)
Paruterina candelabraria plerocercoid (Man)
Taenia crassiceps cysticercus (Ont)
T. mustelae metacestode (Alta, Nfld, Ont, Que)
NEMATODA
Capillaria hepatica (Man)
Pelodera strongyloides larva (NWT)
Rictularia coloradensis (Alta)
Syphacia obvelata (Nfld, Que)
ACANTHOCEPHALA
Polymorphus paradoxus (Alta)

Microtus pennsylvanicus drummondii (Audubon and Bachman)
CESTOIDEA
Hymenolepis johnsoni (NWT)
Taenia crassiceps cysticercus (Man)
Taenia sp. metacestode (Man)
NEMATODA
Syphacia obvelata (Man)

Microtus p. pennsylvanicus (Ord)
NEMATODA
Capillaria hepatica (Ont)

Microtus p. terraenovae (Bangs)
TREMATODA
Brachylaima sp. (Nfld)

Microtus sp. lab.
PROTOZOA
Trypanosoma microti (Ont)

Mus musculus L. — House mouse
PROTOZOA
Toxoplasma gondii (Ont)
TREMATODA
Alaria americana mesocercaria (Ont)
A. arisaemoides mesocercaria (Ont)
CESTOIDEA
Choanotaenia nebraskensis (Alta)
Taenia taeniaeformis cysticercus (Alta)
NEMATODA
Pelodera strongyloides larva (NWT)
Syphacia obvelata (Nfld)

Mus musculus (laboratory) — House mouse
CESTOIDEA
Echinococcus granulosus (Lebanon Strain) (Que)
E. multilocularis sibiricensis (Que)
Taenia crassiceps cysticercus (Man)
Taenia mustelae metacestode (Ont)
NEMATODA
Capillaria hepatica (Ont)
Trichinella spiralis (Man, Que)
T. spiralis larva (Man, NWT, Que)

T. spiralis cyst (Que)
T. s. var. *pseudospiralis* (Man)
Trichuris muris (Ont)

Neotoma cinerea (Ord) Bushy-tailed wood rat
CESTOIDEA
Andrya neotomae (Alta)

Ondatra zibethicus (L.) Muskrat
PROTOZOA
Eimeria stiedae (Ont)
Encephalitozoon cuniculi (Sask)
Frenkelia microti (Ont)
Protozoa gen. sp. (Man)
TREMATODA
Alaria craterum (Ont)
A. mustelae (Man, Ont)
Catatropus filamentis (Ont)
Echinochasmus schwartzi (Ont)
Echinoparyphium contiguum (BC, Ont)
Echinoparyphium sp. (NB)
Echinostoma callawayensis (Ont)
E. revolutum (BC, Man, NB, Ont, Que)
Echinostomum sp. (Alta)
Metorchis conjunctus (Ont)
Notocotylus filamentis (Man)
N. quinqueserialis (Ont)
N. urbanensis (BC, NB, Ont)
Nudacotyle novicia (NB, Ont)
Opisthorchis tonkae (NB)
Plagiorchis noblei (Man)
P. proximus (BC, NB, Ont)
Psilostomum ondatrae (Ont)
Quinqueserialis quinqueserialis (BC, Man, NB, Ont)
Q. zibethicai (Que)
Schistosomatium douthitti (NB)
S. douthitti ova (Man)
S. douthitti immature (Man)
Wardius zibethicus (Man, NB, Ont)
CESTOIDEA
Andrya macrocephala (NB)
Cladotaenia cysticercus (BC)
Cysticercus fasciolaris (BC, Ont)
C. talpae (Ont)
Echinococcus multilocularis sibiricensis (Que)
Hymenolepis evaginata (Alta, BC, NB, Ont)
H. octocoronata (BC)
Hymenolepis sp. (Alta, Man)
Taenia crassiceps cysticercus (Ont)
T. mustelae metacestode (BC, NB, Ont)
T. taeniaeformis cysticercus (Man, Ont)
Taenia sp. (Ont)
NEMATODA
Capillaria hepatica (Alta, BC, Man, Ont)
C. michiganensis (Man, Ont)
C. ransomia (BC)
Dracunculus insignis (Ont)
Dracunculus sp. (Ont)
Eustrongylides sp. larva (Ont)
Heligmosomum carolinensis (Man)
Trichuris opaca (BC, Ont)
ACANTHOCEPHALA
Polymorphus paradoxus (Alta)
Polymorphus sp. (BC, Man)

Ondatra zibethicus obscurus (Bangs)
TREMATODA
Diplostomum mergi (Nfld)
Echinoparyphium contiguum (Nfld)
E. recurvatum (Nfld)
Echinostoma revolutum (Nfld)
Paramphistomatidae gen. sp. (Nfld)
Plagiorchis proximus (Nfld)
Quinqueserialis quinqueserialis (Nfld)
CESTOIDEA
Anoplocephalid (Nfld)
Hymenolepis evaginata (Nfld)
NEMATODA
Capillaria michiganensis (Nfld)
Trichostrongylus calcaratus (Nfld)

Ondatra zibethicus osoyoosensis (Lord)
CESTOIDEA
Taenia taeniaeformis cysticercus (BC)

Peromyscus leucopus (Rafinesque) White-footed mouse
CESTOIDEA
Taenia mustelae metacestode (NWT)
NEMATODA
Capillaria hepatica (Ont)

Peromyscus leucopus noveboracensis (Fischer)
NEMATODA
Capillaria hepatica (Ont)

Peromyscus maniculatus (Wagner) Deer mouse
PROTOZOA
Eimeria arizonensis (BC)
E. siniffi (BC)
Giardia peromysci (Ont)
Toxoplasma gondii (Ont)
Trypanosoma peromysci (Alta)
TREMATODA
Alaria americana mesocercaria (Ont)
A. arisaemoides mesocercaria (Ont)
Digenea gen. sp. metacercaria (Que)
Postharmostomum helicis (Que)
CESTOIDEA
Choanotaenia peromysci (Alta)
Cladotaenia globifera metacestode (Ont)
Echinococcus multilocularis hydatid cyst (Alta, Man)

Paruterina candelabraria plerocercoid (Man)
P. rauschi (Ont)
Taenia crassiceps cysticercus (Ont)
T. mustelae metacestode (Nfld, Ont, Que)
NEMATODA
Capillaria hepatica (Alta, Man, Ont)
Capillaria sp. (Que)
Metastrongyloidea gen. sp. larva (Ont)
Pelodera strongyloides larva (NWT)
Protospirura muris (Que)
Syphacia peromysci (Que)
Trichinella spiralis larva (BC)

Peromyscus maniculatus gracilis (Le Conte)
CESTOIDEA
Hymenolepis bennetti (Ont)

Peromyscus maniculatus nebrascensis (Coues)
PROTOZOA
Trypanosoma peromysci (Alta)

Phenacomys intermedius Merriam Heather vole
CESTOIDEA
Andrya communis (Alta)
Paranoplocephala variabilis (Alta)
NEMATODA
Heligmosomoides polygyrus (Alta)

Rattus norvegicus (Berkenhout) Norway rat
PROTOZOA
Chilomastix bettencourti (Que)
Eimeria carinii (Que)
E. miyairii (Que)
E. separata (Que)
Entamoeba muris (Que)
Giardia muris (Ont, Que)
G. simoni (Ont)
Toxoplasma gondii (Ont)
Trichomonas muris (Que)
CESTOIDEA
Cysticercus fasciolaris (Que)
Hymenolepis diminuta (Que)
H. murina (Que)
Hymenolepididae gen. sp. (Nfld)
Taenia taeniaeformis cysticercus (Nfld)
NEMATODA
Capillaria hepatica (Que)
Heterakis spumosa (Nfld, Que)
Nippostrongylus muris (Que)
Protospirura muris (Que)
Strongyloides ratti (Que)
Trichosomoides crassicauda (Que)

Rattus sp. Wild rat
PROTOZOA
Trypanosoma lewisi (Ont)
NEMATODA
Trichinella spiralis (NB, NS, PEI)
T. spiralis larva (BC, NB, NS, PEI)

Sigmodon hispidus Say and Ord Cotton rat
TREMATODA
Metorchis conjunctus (Que)
CESTOIDEA
Echinococcus granulosus (Lebanon strain) (Que)
E. multilocularis hydatid cyst (Que)
E. m. sibiricensis (Que)
Taenia crassiceps cysticercus (Man)

Synaptomys borealis (Richardson) Northern bog lemming
CESTOIDEA
Andrya arctica (Alta)
Paranoplocephala infrequens (Nfld, Que)
Taenia mustelae metacestode (Nfld, Que)

Synaptomys cooperi cooperi Baird
NEMATODA
Capillaria hepatica (Ont)

MURIDAE OF UNDETERMINED SPECIES

Field mice
PROTOZOA
Giardia microti (NS)

Hamster (Lab)
PROTOZOA
Giardia microti (Ont)
G. muris (Ont)
TREMATODA
Diplostomum spathaceum (Ont)

Mouse (Lab)
PROTOZOA
Giardia muris (NS, Ont)
TREMATODA
Alaria americana mesocercaria (Ont)
A. arisaemoides mesocercaria (Ont)
Diplostomum spathaceum (Ont)
CESTOIDEA
Echinococcus granulosus canadensis hydatid cyst (Que)
E. multilocularis hydatid cyst (Que)
E. m. sibiricensis (Que)
Taenia crassiceps cysticercus (Man, Ont)
NEMATODA
Capillaria hepatica (Ont)
Trichinella sp. (Man)

Muskrat
NEMATODA
Dracunculus insignis (Ont)

Rat (Lab)

PROTOZOA
Giardia mesocricetus (Ont)
G. muris (NS)
G. simoni (Ont)
CESTOIDEA
Echinococcus multilocularis sibiricensis hydatid cyst (Que)
NEMATODA
Trichinella spiralis (Man)
T. spiralis cyst/larva (BC)

FAMILY SCIURIDAE

Eutamias amoenus (J. A. Allen) Yellow-pine chipmunk
NEMATODA
Syphacia eutamii (Alta)

Eutamias minimus (Bachman) Least chipmunk
PROTOZOA
Trypanosoma tamiasi (Ont)
CESTOIDEA
Hymenolepis sp. (Sask)
Taenia mustelae metacestode (Ont, Sask)
NEMATODA
Citellinema bifurcatum (Sask)
Heteroxynema cucullatum (Sask)

Glaucomys sabrinus (Shaw) Northern flying squirrel
PROTOZOA
Eimeria dorneyi (Ont)
TREMATODA
Plagiorchis proximus (Sask)
CESTOIDEA
Andrya sciuri (Sask)
Cladotaenia globifera metacestode (Sask)

Marmota monax (L.) Woodchuck
CESTOIDEA
Taenia crassiceps cysticercus (Ont)
T. mustelae metacestode (Ont)
NEMATODA
Ackertia marmotae (Ont)
Obeliscoides cuniculi cuniculi (Ont)

Marmota monax canadensis (Erxleben)
NEMATODA
Ackertia marmotae (Ont, Que)

Marmota vancouverensis Swarth Vancouver Island marmot
CESTOIDEA
Diandrya vancouverensis (BC)
NEMATODA
Baylisascaris laevis (BC)

Sciurus carolinensis Gmelin Gray squirrel
PROTOZOA
Eimeria confusa (Ont)
E. ontarioensis (Ont)
Eimeria sp. (Ont)
CESTOIDEA
Taenia crassiceps cysticercus (Ont)

Spermophilus columbianus (Ord) Columbian ground squirrel
PROTOZOA
Eimeria bilamellata (Alta)
E. callospermophili (Alta)
E. lateralis (Alta)
Trypanosoma otospermophili (Alta, YT)
NEMATODA
Trichinella spiralis larva (BC)

Spermophilus franklinii (Sabine) Franklin's ground squirrel
PROTOZOA
Eimeria bilamellata (Alta)
E. callospermophili (Alta)
E. spermophili (Alta)
Trypanosoma otospermophili (Alta, YT)
TREMATODA
Alaria mustelae mesocercaria (Sask)
Plagiorchis proximus (Sask)
CESTOIDEA
Choanotaenia spermophili (Sask)
Hymenolepis citelli (Man, Sask)
Taenia mustelae metacestode (Sask)
T. taxidiensis cysticercus (Sask)
NEMATODA
Capillaria hepatica (Sask)
Citellinema bifurcatum (Sask)
Physaloptera spinicauda (Man, Sask)
P. spinicauda larva (Sask)
Rictularia citelli (Man)
Spirura infundibuliformes (Sask)
S. infundibuliformes larva (Sask)

Spermophilus parryii (Richardson) Arctic ground squirrel
Syn.: *Spermophilus undulatus plesius* Osgood squirrel
PROTOZOA
Trypanosoma otospermophili (Alta, YT)

Spermophilus richardsonii (Sabine) Richardson's ground squirrel
PROTOZOA
Eimeria bilamellata (Alta)
E. callospermophili (Alta)
E. lateralis (Alta)
E. spermophili (Alta)
Sarcocystis campestris (Sask)
Trypanosoma citelli (Alta)
T. otospermophili (Alta, YT)
TREMATODA
Plagiorchis proximus (Man, Sask)
CESTOIDEA

Choanotaenia spermophili (Sask)
Hymenolepis citelli (Man, Sask)
H. diminuta (Alta)
NEMATODA
Baylisascaris laevis (Sask)
Baylisascaris sp. larva (Sask)
Capillaria hepatica (Sask)
Citellinema bifurcatum (Man, Sask)
Physaloptera spinicauda (Sask)
P. spinicauda larva (Sask)
Spirura infundibuliformis (Man, Sask)
S. infundibuliformis larva (Sask)
Strongyloides robustus (Sask)
Syphacia citelli (Sask)
Trichostrongylus axei (Sask)
Trichuris leporis (Man)
Trichuris sp. (Man, Sask)
ACANTHOCEPHALA
Mediorhynchus robustus (Sask)

Spermophilus tridecemlineatus (Mitchell) Thirteen-lined ground squirrel
PROTOZOA
Trypanosoma otospermophili (Alta, YT)
CESTOIDEA
Cladotaenia circi cysticeroid (Sask)
Hymenolepis citelli (Man, Sask)
Taenia mustelae metacestode (Sask)
NEMATODA
Citellinema bifurcatum (Sask)
Oxynema sp. (Alta)
Physaloptera spinicauda (Alta, Man, Sask)
P. spinicauda larva (Sask)
Rictularia citelli (Man)
Spirura infundibuliformis (Man, Sask)
S. infundibuliformis larvae (Sask)
Strongyloides robustus (Sask)
ACANTHOCEPHALA
Moniliformis spiradentatis (Man)

Tamias striatus (L.) Eastern chipmunk
PROTOZOA
Trypanosoma tamiasi (Ont)
TREMATODA
Scaphiostomum pancreaticum (Ont)
CESTOIDEA
Taenia crassiceps cysticercus (Ont)
T. mustelae metacestode (Ont)
NEMATODA
Metastrongyloidea gen. sp.larva (Ont)

Tamiasciurus hudsonicus (Erxleben) Red squirrel
PROTOZOA
Eimeria tamiasciuri (Alta)
E. toddi (Alta)
Hepatozoon sp. (Alta)
TREMATODA
Plagiorchis proximus (Sask)
CESTOIDEA
Andrya primordialis (Alta, Sask)
Cladotaenia sp. cysticercus (Alta)
Hymenolepis horrida (Alta)
Paruterina candelabraria plerocercoid (Alta, Sask)
Taenia crassiceps cysticercus (Ont)
T. mustelae metacestode (Alta, Ont)
T. rileyi cysticercus (Alta)
NEMATODA
Ascaris sp. (Alta)
Capillaria hepatica (Ont)
Citellinema bifurcatum (Alta, Sask)
Physaloptera sp. (Alta)
Strongyloides robustus (Sask)
Syphacia thompsoni (Alta, Sask)
Trichinella spiralis larva (BC)

Tamiasciurus hudsonicus hudsonicus (Erxleben)
NEMATODA
Citellinema bifurcatum (Man)

SCIURIDAE OF UNDETERMINED SPECIES

Squirrel
PROTOZOA
Trypanosoma sp. (BC)

FAMILY ZAPODIDAE

Napaeozapus insignis insignis (Miller) Woodland jumping
Syn.: *Napaeozapus insignis algonquinensis* Prince mouse
CESTOIDEA
Hymenolepis bennetti (Ont)
NEMATODA
Capillaria hepatica (Ont)

Zapus hudsonius (Zimmermann) Meadow jumping mouse
TREMATODA
Plagiorchis proximus (Nfld, Que)
Quinqueserialis quinqueserialis (Nfld, Que)
CESTOIDEA
Choanotaenia sp. (Alta)
Mesocestoides sp. (Nfld, Que)
Taenia mustelae metacestode (Ont)
NEMATODA
Protospirura muris (Nfld, Que)

REFERENCES

ADAMS, J.R. 1964. Taeniids from lynx in British Columbia with a comment on *Taenia monostephanos* von Linstow and other taeniids with a single crown of hooks. Abstract of paper given at the 1st International Congress for Parasitology, Rome, September 1964.

ADDISON, E.M. 1973. Life cycle of *Dipetalonema sprenti* Anderson (Nematoda: Filarioidea) of beaver (*Castor canadensis*). Canadian Journal of Zoology 51: 403-416.

---------- 1978. *Crenosoma* spp. (Nematoda: Metastrongyloidea) from black bears, *Ursus americanus*, of central Ontario. Canadian Journal of Zoology 56: 1993-1997.

---------- 1980. Transmission of *Dirofilaria ursi* Yamaguti, 1941 (Nematoda: Onchocercidae) of black bears (*Ursus americanus*) by blackflies (Simuliidae). Canadian Journal of Zoology 58: 1913-1922.

ADDISON, E.M., AND B. BOLES. 1978. Helminth parasites of wolverine, *Gulo gulo*, from the District of Mackenzie, Northwest Territories. Canadian Journal of Zoology 56: 2241-2242.

ADDISON, E.M., A. FYVIE, AND F.J. JOHNSON. 1979. Metacestodes of moose, *Alces alces*, of the Chapleau Crown Game Preserve, Ontario. Canadian Journal of Zoology 57: 1619-1623.

ADDISON, E.M., M.J. PYBUS, AND H.J. RIETVELD. 1978. Helminths and arthropod parasites of black bear, *Ursus americanus*, in central Ontario. Canadian Journal of Zoology 56: 2122-2126.

AMIN, O.M. 1982. Acanthocephala. pp. 933-940. *In* Synopsis and Classification of Living Organisms. McGraw-Hill Book Co., New York.

ANDERSON, R.C. 1952. Description and relationships of *Dirofilaria ursi* Yamaguti, 1941, and a review of the genus *Dirofilaria* Railliet and Henry, 1911. Transactions of the Royal Canadian Institute 29: 35-64.

---------- 1953. *Dipetalonema sprenti* n. sp. from *Castor canadensis* Kuhl. Parasitology 43: 215-221.

---------- 1956. *Elaphostrongylus odocoilei* Hobmaier and Hobmaier, 1934 in the cranial case of *Odocoileus virginianus borealis* Miller. Canadian Journal of Zoology 34: 167-173.

---------- 1962a. The systematics and transmission of new and previously described metastrongyles (Nematoda: Metastrongylidae) from *Mustela vison*. Canadian Journal of Zoology 40: 893-920.

---------- 1962b. The helminth and arthropod parasites of the white-tailed deer (*Odocoileus virginianus*): a general review. Transactions of the Royal Canadian Institute, 34: 57-92.

---------- 1963a. The incidence, development, and experimental transmission of *Pneumostrongylus tenuis* Dougherty (Metastrongyloidea: Protostrongylidae) of the meninges of the white-tailed deer (*Odocoileus virginianus borealis*) in Ontario. Canadian Journal of Zoology 41: 775-792.

---------- 1963b. Further studies on the taxonomy of metastrongyles (Nematoda: Metastrongyloidea) of Mustelidae in Ontario. Canadian Journal of Zoology 41: 801-809.

---------- 1964a. *Gnathostoma miyazakii* n. sp. from the otter (*Lutra c. canadensis*) with comments on *G. sociale* (Leidy, 1858) of mink (*Mustela vison*). Canadian Journal of Zoology 42: 249-254.

---------- 1964b. Neurologic disease in moose infected experimentally with *Pneumostrongylus tenuis* from white-tailed deer. Pathologia Veterinaria 1: 289-322.

---------- 1965a. An examination of wild moose exhibiting neurologic signs, in Ontario. Canadian Journal of Zoology 43: 635-639.

---------- 1971b. Neurologic disease in reindeer (*Rangifer tarandus tarandus*) introduced into Ontario. Canadian Journal of Zoology 49: 159-166.

ANDERSON, R.C., M.W. LANKESTER, AND U.R. STRELIVE. 1966. Further experimental studies of *Pneumostrongylus tenuis* in cervids. Canadian Journal of Zoology 44: 851-861.

ANDERSON, R.C., AND U.R. STRELIVE. 1966. The transmission of *Pneumostrongylus tenuis* to guinea pigs. Canadian Journal of Zoology 44: 533-540.

---------- 1967. The penetration of *Pneumostrongylus tenuis* into the tissues of white-tailed deer. Canadian Journal of Zoology 45: 285-289.

---------- 1968. The experimental transmission of *Pneumostrongylus tenuis* to caribou

(*Rangifer tarandus terraenovae*). Canadian Journal of Zoology 46: 503-510.

ANONYMOUS 1930. Experimental fur farm. Ont. Dept. Game Fish. Annu. Rep. 23(1929): 9-12.

---------- 1931. A note on *Parametorchis canadensis* (Law) from Ontario mink. Report of the Ontario Veterinary College for 1930: 39.

---------- 1950. Survey to ascertain the geographical distribution of the large American liver fluke (*Fascioloides magna*) in Ontario. Report of the Ontario Veterinary College for 1949: 35.

BAIRD, W. 1853. Catalogue of the species of Entozoa or intestinal worms contained in the collection of the British Museum, London. Woodfall and Kinder, London. 132 pp.

BAKER, M.R., AND R.C. ANDERSON. 1975. Seasonal changes in abomasal worms (*Ostertagia* spp.) in white-tailed deer (*Odocoileus virginianus*) at Long Point, Ontario. Canadian Journal of Zoology 53: 87-96.

BAKER, M.R., AND S.R. PURSGLOVE, JR. 1976. *Oesophagostomum* Molin 1861 in white-tailed deer (*Odocoileus virginianus*) of North America. Journal of Parasitology 62: 166-168.

BALASINGAM, E. 1964a. Studies on the life cycle and developmental morphology of *Placoconus lotoris* (Schwartz, 1925) Webster, 1956 (Ancylostomidae: Nematoda). Canadian Journal of Zoology 42: 869-902.

---------- 1964b. On the pathology of *Placoconus lotoris* infections in raccoons (*Procyon lotor*). Canadian Journal of Zoology 42: 903-905.

BALLANTYNE, R.J., AND W.M. SAMUEL. 1984. Diagnostic morphology of the third-stage larvae of the three species of *Parelaphostrongylus* (Nematoda, Metastrongyloidea). Journal of Parasitology 70: 602-604.

BANFIELD, A.W.F. 1954. Preliminary investigations of the barren ground caribou. Part II. Life history, ecology, and utilization. Wildlife Management Bulletin (Ottawa) Series 1 No. 10B.

BARKER, I.K. 1970. The penetration of oncospheres of *Taenia pisiformis* into the intestine of the rabbit. Canadian Journal of Zoology 48: 1329-1332.

BARON, R.W. 1970. The occurrence of *Echinococcus multilocularis* Leuckart, 1863 and of other helminths in the red fox, *Vulpes vulpes*, in southern Manitoba. Canadian Journal of Zoology 48: 1132.

BARON, R.W. 1971. The occurrence of *Paruterina candelabraria* (Goeze, 1782) and *Cladotaenia globifera* (Batsch, 1786) in Manitoba. Canadian Journal of Zoology 49: 1399-1400.

BARON, R.W., M.E. RAU, AND C.E. TANNER. 1974. Growth of secondary *Echinococcus multilocularis* in experimentally infected hosts. Canadian Journal of Zoology 52: 587-589.

BARRETT, M.W. 1972. A review of the diet, condition, diseases, and parasites of the Cypress Hills moose. 8th North American Moose Conference Workshop, Thunder Bay, Ontario. Ontario Ministry of National Resources, Toronto, 60-79.

BARRETT, M.W., AND G.A. CHALMERS. 1972. *Capillaria hepatica* (Nematoda: Trichuridae) in pronghorn antelope (*Antilocapra americana* Ord) in Alberta. Journal of Wildlife Diseases 8: 332-334.

BARTLETT, C.M. 1983a. Zoogeography and taxonomy of *Dirofilaria scapiceps* (Leidy, 1886) and *D. uniformis* Price, 1957 (Nematoda: Filarioidea) of lagomorphs in North America. Canadian Journal of Zoology 61: 1011-1022.

BARTLETT, C.M. 1984a. Development of *Dirofilaria scapiceps* (Leidy, 1886) (Nematoda: Filarioidea) in lagomorphs. Canadian Journal of Zoology 62: 965-979.

BARTLETT, C.M. 1984b. Pathology and epizootiology of *Dirofilaria scapiceps* (Leidy, 1886) (Nematoda: Filarioidea) in *Sylvilagus floridanus* (Allen) and *Lepus americanus* Erxleben. Journal of Wildlife Diseases 20: 197-206.

BECKLUND, W.W. 1965. *Nematodirus maculosus* sp. n. (Nematoda: Trichostrongylidae) from the mountain goat, *Oreamnos americanus*, in North America. Journal of Parasitology 51: 945-947.

BECKLUND, W.W., AND M.L. WALKER. 1967. *Nematodirus odocoilei* sp.n. (Nematoda: Trichostrongylidae) from the black-tailed deer, *Odocoileus hemionus* , in North America. Journal of Parasitology 53: 392-394.

---------- 1968. *Ostertagia dikmansi* sp.n. (Nematoda: Trichostrongylidae) from deer, *Odocoileus virginianus*, with a key to the species of medium stomach worms of

Odocoileus in North America. Journal of Parasitology 54: 441-444.

---------- 1969. Taxonomy, hosts, and geographic distribution of the *Setaria* (Nematoda: Filarioidea) in the United States and Canada. Journal of Parasitology 55: 359-368.

BENSON, D.A. 1958. Moose "sickness" in Nova Scotia-1. Canadian Journal of Comparative Medicine 22: 244-248.

BEVERLEY-BURTON, M., AND P.R. SWEENY. 1972. Intranuclear, paracrystalline inclusions in various cells of *Quinqueserialis quinqueserialis* and *Notocotylus urbanensis* (Trematoda: Notocotylidae). Canadian Journal of Zoology 50: 345-348.

BINDERNAGEL, J.A., AND R.C. ANDERSON. 1972a. Newer aspects of the problem of meningeal worm (*Pneumostrongylus tenuis*) in North America: Distribution in white-tailed deer and moose. 8th North American Moose Conference Workshop, Thunder Bay, Ontario 1-17.

---------- 1972b. Distribution of the meningeal worm in white-tailed deer in Canada. Journal of Wildlife Management 36: 1349-1353.

BLOOD, D.A. 1963. Parasites from California bighorn sheep in southern British Columbia. Canadian Journal of Zoology 41: 913-918.

BOUGHTON, R.V. 1932. The influence of helminth parasitism on the abundance of the snowshoe rabbit in western Canada. Canadian Journal of Research Section D, Zoological Sciences 7: 524-547.

BOURQUE, M. 1981. The masked shrew (*Sorex cinereus*), a new host for *Capillaria plica*. Canadian Journal of Zoology 59: 2393-2394.

---------- 1985. A survey of Trichinella spiralis in wild carnivores in southwestern Quebec. The Canadian Veterinary Journal 26: 203-204.

BOWER, S.M., AND P.T.K. WOO. 1981. Two new species of trypanosomes (subgenus *Schizotrypanum*) in bats from southern Ontario. Canadian Journal of Zoology 59: 530-545.

BROOKS, D.R., R.T. O'GRADY, AND D.R. GLEN. 1985. Phylogenetic analysis of the Digenea (Platyhelminthes: Cercomeria) with comments on their adaptive radiation. Canadian Journal of Zoology 63: 411-443.

BURSEY, C.C., AND M.D.B. BURT. 1970. *Taenia macrocystis* (Diesing, 1850), its occurrence in eastern Canada and Maine, U.S.A., and its life cycle in wild felines (*Lynx rufus* and *L. canadensis*) and hares (*Lepus americanus*). Canadian Journal of Zoology 48: 1287-1293.

BUSH, A.O., AND W.M. SAMUEL. 1978. The genus *Travassosius* Khalil, 1922 (Nematoda: Trichostrongyloidea) in beaver, *Castor* spp.: a review and suggestion for speciation. Canadian Journal of Zoology 56: 1471-1474.

---------- 1981. A review of helminth communities in beaver (*Castor* spp.) with a survey of *Castor canadensis* in Alberta, Canada. In: First Worldwide Furbearer Conf. J.A. Chapman and D. Pursley eds. pp. 678-689.

BUTTERWORTH, E.W., AND M. BEVERLEY-BURTON. 1980. The taxonomy of *Capillaria* spp. (Nematoda: Trichuroidea) in Carnivorous mammals from Ontario, Canada. Systematic Parasitology 1: 211-236.

---------- 1981. Observations on the prevalence and intensity of *Capillaria* spp. (Nematoda: Trichuroidea) in wild Carnivora from Ontario, Canada. Proceedings of the Helminthological Society of Washington 48: 24-27.

BUTTERWORTH, E.W., AND J.C. HOLMES. 1984. Character divergence in two species of trematodes (*Pharyngostomoides* : Strigeoidea). Journal of Parasitology 70: 315-316.

CAMERON, A.E. 1923. Notes on buffalo: anatomy, pathological conditions, and parasites. Veterinary Journal 79: 331-336.

CAMERON, T.W.M. 1936. Studies on the heterophyid trematode, *Apophallus venustus* (Ransom, 1920) in Canada. Part I. Morphology and taxonomy. Canadian Journal of Research Section D, Zoological Sciences 14: 59-69.

---------- 1937a. Studies on the heterophyid trematode *Apophallus venustus* (Ransom, 1920) in Canada. Part II. Life history and bionomics. Canadian Journal of Research Section D, Zoological Sciences 15: 38-51.

---------- 1937b. Studies on the heterophyid trematode *Apophallus venustus* (Ransom, 1920) in Canada. Part III. Further hosts. Canadian Journal of Research Section D, Zoological Sciences 15: 275.

---------- 1937c. Cited in: The distribution of *Paragonimus*. Journal of Parasitology 23: 382-388.

---------- 1940. *Metorchis conjunctus* (Cobbold,

1859) Looss, 1899. Report on the Proceedings of the III International Congress of Microbiology (Abstract): 437-438. New York.

---------- 1960. Trichinosis in Canada. Wiadomosci Parazytologiczne 6: 304.

CAWTHORN, R.J., AND R.C. ANDERSON. 1976a. Development of *Physaloptera maxillaris* (Nematoda: Physalopteroidea) in skunk (*Mephitis mephitis*) and the role of paratenic and other hosts in its life cycle. Canadian Journal of Zoology 54: 313-323.

---------- 1976b. Seasonal population changes of *Physaloptera maxillaris* (Nematoda: Physalopteroidea) in striped skunk (*Mephitis mephitis*). Canadian Journal of Zoology 54: 522-525.

CAWTHORN, R.J., G.A. WOBESER, AND A.A. GAJADHAR. 1983. Description of *Sarcocystis campestris* sp. n. (Protozoa: Sarcocystidae): a parasite of the badger *Taxidea taxus* with experimental transmission to the Richardson's ground squirrel, *Spermophilus richardsonii*. Canadian Journal of Zoology 61: 370-377.

CHADEE, K., AND T.A. DICK. 1982. Designation and freezing resistance of isolates of *Trichinella spiralis* from wild carnivores. Journal of Wildlife Diseases 18: 169-173.

CHALMERS, G.A., AND M.W. BARRETT. 1974. *Echinococcus multilocularis* Leuckart, 1863 in rodents in southern Alberta. Canadian Journal of Zoology 52: 1091.

CHAPIN, E.A. 1925. New nematodes from North American mammals. Journal of Agricultural Research 30: 677-681.

CHOQUETTE, L.P.E. 1951. Helminthes parasites trouves chez la mouffette *Mephitis mephitis* dans la Province de Quebec. Canadian Journal of Comparative Medicine 15: 62-64.

---------- 1952. *Dirofilaria desportesi* sp. nov., a filariid from the black bear in Canada. Canadian Journal of Zoology 30: 344-351.

CHOQUETTE, L.P.E., E. BROUGHTON, AND G.G. GIBSON. 1973. *Schistosomatium douthitti* (Cort, 1914) Price, 1929 in a porcupine (*Erethizon dorsatum*) in eastern Ontario, Canada. Canadian Journal of Zoology 51: 1317.

CHOQUETTE, L.P.E., E. BROUGHTON, F.L. MILLER, H.C. GIBBS, and J.G. COUSINEAU. 1967. *Besnoitiosis* in barren-ground caribou in northern Canada. Canadian Veterinary Journal 8: 282-287.

CHOQUETTE, L.P.E., G.G. GIBSON, E. KUYT, AND A.M. PEARSON. 1973. Helminths of wolves, *Canis lupus* L., in the Yukon and Northwest Territories. Canadian Journal of Zoology 51: 1087-1091.

CHOQUETTE, L.P.E., G.G. GIBSON, AND A.M. PEARSON. 1969. Helminths of the grizzly bear, *Ursus arctos* L. in northern Canada. Canadian Journal of Zoology 47: 167-170.

CHOQUETTE, L.P.E., G.G. GIBSON, AND B. SIMARD. 1971. *Fascioloides magna* (Bassi, 1875) Ward, 1917 (Trematoda) in woodland caribou, *Rangifer tarandus caribou* (Gmelin), of northeastern Quebec, and its distribution in wild ungulates in Canada. Canadian Journal of Zoology 49: 280-281.

CHOQUETTE, L.P.E., A.H. MACPHERSON, AND J.G. COUSINEAU. 1962. Note on the occurrence of *Echinococcus multilocularis* Leuckart, 1863 in the arctic fox in Canada. Canadian Journal of Zoology 40: 1167.

CHOQUETTE, L.P.E., AND D.H. PIMLOTT. 1956. Gastrointestinal parasites of beaver in Newfoundland. Canadian Journal of Zoology 34: 209.

CHOQUETTE, L.P.E., L.K. WHITTEN, G. RANKIN, AND C.M. SEAL. 1957. Note on parasites found in reindeer (*Rangifer tarandus*) in Canada. Canadian Journal of Comparative Medicine and Veterinary Science 21: 199-203.

CLIFF, G.M., R.C. ANDERSON, AND F.F. MALLORY. 1978. Dauerlarvae of *Pelodera strongyloides* (Schneider, 1860) (Nematoda: Rhabditidae) in the conjunctival sacs of lemmings. Canadian Journal of Zoology 56: 2117-2121.

CONKLIN, R.L., AND A.D. BAKER. 1930. Presence of the lancet fluke, *Dicrocoelium dendriticum* (Rudolphi, 1819), in Canada. Journal of Parasitology 17: 18-19.

CONNELL, R., AND A.H. CORNER. 1957. *Polymorphus paradoxus* sp. nov. (Acanthocephala) parasitizing beavers and muskrats in Alberta, Canada. Canadian Journal of Zoology 35: 525-533.

COWAN, I. MCT. 1942. Report upon some diseases and parasites of game birds and game and fur-bearing mammals in British Columbia. Report of the Provincial Game Commission, British Columbia (1941), K40-K45.

---------- 1944. Parasites, diseases, and injuries of game animals in Banff, Jasper, and Kootenay National Parks. Lands, Parks, and Forests Branch, National Parks Bureau pp. 1-42.

---------- 1946. Parasites, diseases, injuries, and

anomalies of the Columbian black-tailed deer, *Odocoileus hemionus columbianus* (Richardson), in British Columbia. Canadian Journal of Research Section D, Zoological Sciences 24: 71-103.

---------- 1948. The occurrence of the granular tapeworm *Echinococcus granulosus* in wild game in North America. Journal of Wildlife Management 12: 105-106.

---------- 1951. The diseases and parasites of big game mammals of western Canada. Proceedings of the Fifth Annual Game Convention, Vancouver, B.C., 1951. 5: 37-64.

CRAIG, R.E., AND R.C. ANDERSON. 1972. The genus *Crenosoma* (Nematoda: Metastrongyloidea) in New World mammals. Canadian Journal of Zoology 50: 1555-1561.

CRAIG, R.E., AND R.A. BORECKY. 1976. Metastrongyles (Nematoda: Metastrongyloidea) of fisher (*Martes pennanti*) from Ontario. Canadian Journal of Zoology 54: 806-807.

CRICHTON, V.F.J. 1971. Dracunculiasis in otter, mink and raccoon from Ontario. Journal of Parasitology 57(section 2, part 1): 13.

---------- 1979. An experimental moose hunt on Hecla Island, Manitoba. Proceedings of the North American Moose Conference Workshop 15: 245-279.

---------- 1980. Manitoba's second experimental moose hunt on Hecla Island. Proceedings of the North American Moose Conference Workshop 16: 489-526.

CRICHTON, V.F.J., AND M. BEVERLEY-BURTON. 1973. *Dracunculus lutrae* n. sp. (Nematoda: Dracunculoidea) from the otter, *Lutra canadensis*, in Ontario, Canada. Canadian Journal of Zoology 51: 521-529.

---------- 1974. Distribution and prevalence of *Dracunculus* spp. (Nematoda: Dracunculoidea) in mammals in Ontario. Canadian Journal of Zoology 52: 163-167.

---------- 1975. Migration, growth, and morphogenesis of *Dracunculus insignis* (Nematoda: Dracunculoidea). Canadian Journal of Zoology 53: 105-113.

---------- 1977. Observations on the seasonal prevalence, pathology and transmission of *Dracunculus insignis* (Nematoda: Dracunculoidea) in the raccoon (*Procyon lotor* (L.)) in Ontario. Journal of Wildlife Diseases 13: 273-280.

CRICHTON, V.J., AND R.E. URBAN. 1970. *Dioctophyme renale* (Goeze, 1782) (Nematoda: Dioctophymata) in Manitoba mink. Canadian Journal of Zoology 48: 591-592.

DAUPHINE, JR., T.C. 1975. The disappearance of caribou reintroduced to Cape Breton Highlands National Park. Canadian Field-Naturalist 89: 299-310.

DE VOS, A., AND A.E. ALLIN. 1949. Some notes on moose parasites. Journal of Mammalogy 30: 430-431.

DICK, T.A. 1983. Infectivity of isolates of *Trichinella* and the ability of an arctic isolate to survive freezing temperatures in the raccoon, *Procyon lotor*, under experimental conditions. Journal of Wildlife Diseases 19: 333-336.

DICK, T.A., AND M. BELOSEVIC. 1978. Observations on a *Trichinella spiralis* isolate from a polar bear. Journal of Parasitology 64: 1143-1145.

DICK, T.A., AND K. CHADEE. 1983. Interbreeding and gene flow in the genus *Trichinella*. Journal of Parasitology 69: 176-180.

DICK, T.A., AND R.D. LEONARD. 1979. Helminth parasites of fisher *Martes pennanti* (Erxleben) from Manitoba, Canada. Journal of Wildlife Diseases 15: 409-412.

DIES, K.H. 1979. Helminths recovered from black bears in the Peace River region of northwestern Alberta. Journal of Wildlife Diseases 15: 49-50.

---------- 1980. Survival of *Trichinella spiralis* larvae in deep-frozen wolf tissue. Canadian Veterinary Journal 21: 38.

DIES, K.H., AND J.R. GUNSON. 1984. Prevalence and distribution of larvae of *Trichinella* sp. in cougars, *Felis concolor* L., and grizzly bears, *Ursus arctos* L., in Alberta. Journal of Wildlife Diseases 20: 242-244.

DIKMANS, G. 1932. Helminth parasites of deer. Journal of Parasitology 19:83.

---------- 1936. A note on *Dictyocaulus* from domestic and wild ruminants. Journal of the Washington Academy of Sciences 26: 298-303.

DODDS, D.G., AND J.S. MACKIEWICZ. 1961. Some parasites and diseases of snowshoe hares in Newfoundland. Journal of Wildlife Management 25: 409-414.

DOSTER, G.L., AND M. FRIEND. 1971. *Spiculopteragia* (Nematoda) from deer in North America. Journal of Parasitology 57: 468.

DUFF, D. 1914. The beaver fluke, *Amphistomum subtriquetrum*, Rudolphi. Transactions of the Royal Society of Canada 8 (series 3, section 4): 87-98.

DURRELL, W.B., AND W.D. BOLTON. 1957. Parasitosis in a musk ox. Journal of the American Veterinary Medical Association 131: 195-196.

DUSZYNSKI, D.W., W.M. SAMUEL, AND D.R. GRAY. 1977. Three new *Eimeria* spp. (Protozoa, Eimeriidae) from muskoxen, *Ovibos moschatus*, with redescriptions of *E. faurei*, *E. granulosa*, and *E. ovina* from muskoxen and from a Rocky Mountain bighorn sheep, *Ovis canadensis*. Canadian Journal of Zoology 55: 990-999.

EATON, R.D.P., AND D.C. SECORD. 1979. Some intestinal parasites of Arctic fox, Banks Island, N.W.T. Canadian Journal of Comparative Medicine 43: 229-230.

ERICKSON, A.B., AND P.R. HIGHBY. 1942. Parasites of the woodland caribou. Journal of Parasitology 28: 423.

FARLEY, J. 1962. *Schistosomatium douthitti* (Cort, 1914) Price, 1931 in Manitoba. Canadian Journal of Zoology 40: 131-133.

FIRLOTTE, W.R. 1948. A survey of the parasites of the brown Norway rat. Canadian Journal of Comparative Medicine 12: 187-191.

FLOOK, D.R., AND J.E. STENTON. 1969. Incidence and abundance of certain parasites in wapiti in the national parks of the Canadian Rockies. Canadian Journal of Zoology 47: 795-803.

FRANK, J.F. 1951. A study on the incidence of Trichinosis in wild rats in the Maritime provinces. Canadian Journal of Comparative Medicine 15: 279-283.

FRECHETTE, J.L., AND M.E. RAU. 1977. Helminths of the black bear in Quebec. Journal of Wildlife Diseases 13: 432-434.

---------- 1978. Seasonal changes in the prevalence of ova of *Diphyllobothrium ursi* and *Baylisascaris transfuga* in the feces of the black bear (*Ursus americanus*). Journal of Wildlife Diseases 14: 342-344.

FREEMAN, R.S. 1956. Life history studies on *Taenia mustelae* Gmelin, 1790 and the taxonomy of certain taenioid cestodes from Mustelidae. Canadian Journal of Zoology 34: 219-242.

---------- 1958. On the epizootiology of *Capillaria hepatica* (Bancroft, 1893) in Algonquin Park, Ontario. Journal of Parasitology 44 (section 2): 33.

---------- 1960. Another hymenolepid with great morphological variation, *Hymenolepis benneti* n. sp. (Cestoda) from *Napaeozapus insignis algonquinensis* Prince. Canadian Journal of Zoology 38: 737-743.

---------- 1962. Studies on the biology of *Taenia crassiceps* (Zeder, 1800) Rudolphi, 1810 (Cestoda). Canadian Journal of Zoology 40: 969-990.

FREEMAN, R.S., A. ADORJAN, AND D.H. PIMLOTT. 1961. Cestodes of wolves, coyotes, and coyote-dog hybrids in Ontario. Canadian Journal of Zoology 39: 527-532.

FREEMAN, R.S., AND K.A. WRIGHT. 1960. Factors concerned with the epizootiology of *Capillaria hepatica* (Bancroft, 1893) (Nematoda) in a population of *Peromyscus maniculatus* in Algonquin Park, Canada. Journal of Parasitology 46: 373-382.

FYVIE, A. 1966. A review and current survey of the common diseases and parasites of wildlife in Ontario. Ontario Department of Lands and Forests Section Report (Wildlife) 63: 1-21.

GAMBLE, R.L., AND R.R. RIEWE. 1982. Infestations of the nematode *Skrjabingylus nasicola* (Leukart, 1842) in *Mustela frenata* (Lichtenstein) and *M. erminea* (L.) and some evidence of a paratenic host in the life cycle of this nematode. Canadian Journal of Zoology 60: 45-52.

GATES, C.C., AND W.M. SAMUEL. 1977. Prenatal infection of the Rocky Mountain bighorn sheep (*Ovis c. canadensis*) of Alberta with the lungworm *Protostrongylus* spp. Journal of Wildlife Diseases 13: 248-250.

GIBBS, H.C. 1957. On the role of rodents in the epidemiology of hydatid disease in the Mackenzie River basin. Canadian Journal of Comparative Medicine 21: 287-289.

---------- 1959. A redescription of *Avitellina arctica* Kolmakov, 1938 (Anoplocephalidae: Thysanosominae), from *Rangifer arcticus arcticus* in Northern Canada. Journal of Parasitology 45: 624-628.

---------- 1960. Disease investigation of barren-ground caribou. Wildlife Management Bulletin, Canadian Wildlife Service, Ottawa, Series 1, No. 15: 119-135.

GIBBS, H.C., AND W.A. FULLER. 1959. Record of *Wyominia tetoni* Scott, 1941 from *Ovis dalli* in the Yukon Territory. Canadian Journal of Zoology 37: 815.

GIBBS, H.C., AND J.S. TENER. 1958. On some helminth parasites collected from the musk ox (*Ovibos moschatus*) in the Thelon Game

Sanctuary, Northwest Territories. Canadian Journal of Zoology 36: 531-532.

GIBSON, G.G., AND D.A. McKIEL. 1972. *Dracunculus insignis* (Leidy, 1858) and larval *Eustrongylides* sp. in a muskrat from Ontario, Canada. Canadian Journal of Zoology 50: 897-901.

GOBLE, F.C., AND E.C. DOUGHERTY. 1943. Notes on the lungworms (Genus *Protostrongylus*) of varying hares (*Lepus americanus*) in eastern North America. Journal of Parasitology 29: 397-404.

GRANT, D.R., AND P.T.K. WOO. 1978a. Comparative studies of *Giardia* spp. in small mammals in southern Ontario. I. Prevalence and identity of the parasites with a taxonomic discussion of the genus. Canadian Journal of Zoology 56: 1348-1359.

---------- 1978b. Comparative studies of *Giardia* spp. in small mammals in southern Ontario. II. Host specificity and infectivity of stored cysts. Canadian Journal of Zoology 56: 1360-1366.

GRAY, J.B., W.M. SAMUEL, A.W. SHOSTAK, AND M.J. PYBUS. 1985. *Varestrongylus alpenae* (Nematoda: Metastrongyloidea) in white-tailed deer (*Odocoileus virginianus*) of Saskatchewan. Canadian Journal of Zoology 63: 1449-1454.

GREEN, H.U. 1949. Occurrence of *Echinococcus granulosus* in elk (*Cervus canadensis nelsoni*), Banff National Park. Canadian Field-Naturalist 63: 204-205.

GREGSON, J.D. 1937. Cysticercosis in deer. Parasitology 29: 409.

GUNSON, J.R., AND K.H. DIES. 1980. Sylvatic trichinosis in Alberta. Journal of Wildlife Diseases 16: 525-528.

GUPTA, R.P., AND H.C. GIBBS. 1971. Infectivity of *D. viviparus* (moose strain) to calves. Canadian Veterinary Journal 12: 56.

GUPTA, S.P. 1962a. On a new trematode, *Quinqueserialis zibethicai* sp. nov., of the sub-family Notocotylinae from the duodenum of muskrat (*Ondatra zibethica*) from Canada. Indian Journal of Helminthology 14: 66-70.

---------- 1962b. A redescription of *Euparyphium melis* (Schrank, 1788) Dietz, 1909 and *Echinostoma revolutum* (Froelich, 1802) Looss, 1899 parasitic in the intestine of mink (*Mustela vison*) and muskrat (*Ondatra zibethica*) from Canada. Indian Journal of Helminthology 14: 77-85.

HADWEN, S. 1916. A new host for *Fasciola magna*, Bassi, together with observations on the distribution of *Fasciola hepatica*, L., in Canada. Journal of the American Veterinary Medical Association 2: 511-515.

---------- 1932. Helminth parasites of deer. Journal of Parasitology 19: 83.

HAIR, J.D., AND J.L. MAHRT. 1970. *Eimeria albertensis* n. sp. and *E. borealis* n. sp. (Sporozoa: Eimeriidae) in black bears *Ursus americanus* from Alberta. Journal of Protozoology 17: 663-664.

HARPER, T.A., R.A. RUTTAN, AND W.A. BENSON. 1955. Hydatid disease (*Echinococcus granulosus*) in Saskatchewan big game. Transactions of the 20th North American Wildlife Conference 198-208.

HILTON, D.F.J., AND J.L. MAHRT. 1971. *Eimeria spermophili* n. sp. and other *Eimeria* spp. (Sporozoa, Eimeriidae) from three species of Alberta *Spermophilus* (Rodentia, Sciuridae). Canadian Journal of Zoology 49: 699-701.

---------- 1972a. Taxonomy of trypanosomes (Protozoa: Trypanosomatidae) of *Spermophilus* spp. (Rodentia: Sciuridae). Parasitology 65: 403-425.

---------- 1972b. Prevalence of *Trypanosoma otospermophili* (Protozoa: Trypanosomatidae) in five species of *Spermophilus* (Rodentia: Sciuridae). Parasitology 65: 427-432.

HNATIUK, J.M. 1966. First occurrence of *Echinococcus multilocularis* Leuckart, 1863 in *Microtus pennsylvanicus* in Saskatchewan. Canadian Journal of Zoology 44: 493.

---------- 1969. Occurrence of *Echinococcus multilocularis* Leuckart, 1863 in *Vulpes fulva* in Saskatchewan. Canadian Journal of Zoology 47: 264.

HOBBS, R.P. 1980. Interspecific interactions among gastrointestinal helminths in pikas of North America. American Midland Naturalist 103: 15-25.

HOBBS, R.P., AND W.M. SAMUEL. 1974. Coccidia (Protozoa, Eimeriidae) of the pikas *Ochotona collaris*, *O. princeps*, and *O. hyperborea yesoensis*. Canadian Journal of Zoology 52: 1079-1085.

HOBERG, E.P., AND S.G. MCGEE. 1982. Helminth parasitism in raccoons, *Procyon lotor hirtus* Nelson and Goldman, in Saskatchewan. Canadian Journal of Zoology 60: 53-57.

HOLMES, J.C. 1961. The importance of coyotes

(*Canis latrans*) in the maintenance of sylvatic echinococcosis: preliminary observations. Journal of Parasitology 47 (4, section 2): 55.

---------- 1963. Helminth parasites of pine marten, Martes americana, from the District of MacKenzie. Canadian Journal of Zoology 41: 333.

HOLMES, J.C., J.L. MAHRT, AND W.M. SAMUEL. 1971. The occurrence of *Echinococcus multilocularis* Leuckart, 1863 in Alberta. Canadian Journal of Zoology 49: 575-576.

HOLMES, J.C., AND R. PODESTA. 1968. The helminths of wolves and coyotes from the forested regions of Alberta. Canadian Journal of Zoology 46: 1193-1204.

HRUDKA, F., R.J. CAWTHORN, AND J.C. HAIGH. 1983. The occurrence of coccidia (Eimeriidae) in epididymal semen of a wapiti (*Cervus canadensis nelsoni*). Canadian Journal of Zoology 61: 1693-1699.

HUDSON, R., W.D. KITTS, AND P.J. BANDY. 1970. Monitoring parasite activity and disease in the Rocky Mountain bighorn by electrophoresis of seromucoids. Journal of Wildlife Diseases 6: 104-106.

JENNINGS, D.H., W. THRELFALL, AND D.G. DODDS. 1982. Metazoan parasites and food of short-tailed weasels and mink in Newfoundland, Canada. Canadian Journal of Zoology 60: 180-183.

JENSEN, D.N. 1972. The life history of *Scaphiostomum pancreaticum* McIntosh, 1934 (Trematoda: Brachylaemidae). Canadian Journal of Zoology 50: 201-204.

JUNIPER, I. 1978. Morphology, diet, and parasitism in Quebec black bears. Canadian Field-Naturalist 92: 186-189.

KARSTAD, L. 1963. *Toxoplasma microti* (The M-organism) in the muskrat (*Ondatra zibethica*). Canadian Veterinary Journal 4: 249-251.

KARSTAD, L., AND D.O. TRAINER. 1969. *Sarcocystis* in white-tailed deer. Bulletin of the Wildlife Disease Association 5: 25-26.

KEITH, L.B., J.R. CARY, T.M. YUILL, AND I.M. KEITH. 1985. Prevalence of helminths in a cyclic snowshoe hare population. Journal of Wildlife Diseases 21: 233-253.

KELLY, A.I., L.R. PENNER, AND R.J. PICKARD. 1950. *Sarcocystis* in the moose. Journal of Mammalogy 31: 462-463.

KENNEDY, M.J. 1983. A revision of North American species of the genus *Parametorchis* Skrjabin, 1913 (Trematoda: Opisthorchiidae). Proceedings of the Helminthological Society of Washington 50: 312-317.

KENNEDY, M.J., M.W. LANKESTER, AND J.B. SNIDER. 1985. *Paramphistomum cervi* and *Paramphistomum liorchis* (Digenea: Paramphistomatidae) in moose, *Alces alces*, from Ontario, Canada. Canadian Journal of Zoology 63: 1207-1210.

KERR, G.R., AND J.C. HOLMES. 1966. Parasites of mountain goats in west central Alberta. Journal of Wildlife Management 30: 786-790.

KINGSCOTE, A.A. 1934. *Eimeria mustelae*, n. sp. from *Mustela vison*. Journal of Parasitology 20: 252-253.

---------- 1947. Liver fluke control in the Burwash area. Report of the Ontario Veterinary College (1946): 34-35.

---------- 1950. Liver rot (fascioloidiasis) in ruminants. Canadian Journal of Comparative Medicine 14: 203-208.

---------- 1957. Fish, wildlife, and zoo animals. Report of the Ontario Veterinary College for 1956: 26-27.

KNIGHT, I.M. 1951. Diseases and parasites of the muskrat (*Ondatra zibethica*) in British Columbia. Canadian Journal of Zoology 29: 188-214.

KNIGHT, R.A. 1974. *Trichuris oreamnos* sp. n. from the mountain goat, *Oreamnos americanus* (Blainville), in British Columbia, Canada, and a key to trichurids in North American ruminants. Journal of Parasitology 60: 275-279.

KNIGHT, R.A., AND L.S. UHAZY. 1973. Redescription of *Trichuris* (= *Trichocephalus*) *schumakovitschi* (Savinkova, 1967) from Canadian Rocky Mountain bighorn sheep (*Ovis canadensis canadensis*). Journal of Parasitology 59: 136-140.

KO, R.C. 1972. The transmission of *Ackertia marmotae* Webster, 1967 (Nematoda: Onchocercidae) of groundhogs (*Marmota monax*) by *Ixodes cookei*. Canadian Journal of Zoology 50: 437-450.

KO, R.C., AND R.C. ANDERSON. 1972. Tissue migration, growth, and morphogenesis of *Filaroides martis* (Nematoda: Metastrongyloidea) in mink (*Mustela vison*). Canadian Journal of Zoology 50: 1637-1649.

KRALKA, R.A. 1985. Range extension to Quebec for *Protostrongylus boughtoni* (Nematoda: Metastrongyloidea). The Canadian Field-Naturalist 99: 270.

KRALKA, R.A., AND W.M. SAMUEL. 1984. Experimental life cycle of *Protostrongylus boughtoni* (Nematoda: Metastrongyloidea), a lungworm of snowshoe hares, *Lepus americanus*. Canadian Journal of Zoology 62: 473-479.

LANKESTER, M.W. 1972. Diseases of moose in southeastern Manitoba. 8th North American Moose Conference Workshop, Thunder Bay, Ontario. Ontario Ministry for Natural Resources, Toronto. p. 42-59.

---------- 1974. *Parelaphostrongylus tenuis* (Nematoda) and *Fascioloides magna* (Trematoda) in moose of southeastern Manitoba. Canadian Journal of Zoology 52: 235-239.

---------- 1977. Neurologic disease in moose caused by *Elaphostrongylus cervi* Cameron 1931 from caribou. Proceedings of the 13th North American Moose Conference Workshop, Jasper, Alberta. 177-190.

LANKESTER, M.W., AND R.C. ANDERSON. 1966. Small mammals as paratenic hosts of lungworms. Canadian Journal of Zoology 44: 341-342.

---------- 1971. The route of migration and pathogenesis of *Skrjabingylus* spp. (Nematoda: Metastrongyloidea) in mustelids. Canadian Journal of Zoology 49: 1283-1293.

LANKESTER, M.W., AND V.J. CRICHTON. 1972. *Skrjabingylus lutrae* n. sp. (Nematoda: Metastrongyloidea) from otter (*Lutra canadensis*). Canadian Journal of Zoology 50: 337-340.

LANKESTER, M.W., V.J. CRICHTON, AND H.R. TIMMERMANN. 1976. A protostrongylid nematode (Strongylida: Protostrongylidae) in woodland caribou (*Rangifer tarandus caribou*). Canadian Journal of Zoology 54: 680-684.

LANKESTER, M.W., AND T.H. NORTHCOTT. 1979. *Elaphostrongylus cervi* Cameron 1931 (Nematoda: Metastrongyloidea) in caribou (*Rangifer tarandus caribou*) of Newfoundland. Canadian Journal of Zoology 57: 1384-1392.

LANKESTER, M.W., J.B. SNIDER, AND R.E. JERRARD. 1979. Annual maturation of *Paramphistomum cervi* (Trematoda: Paramphistomatidae) in moose, *Alces alces* L. Canadian Journal of Zoology 57: 2355-2357.

LAW, R.G. 1933a. Hookworm infection in foxes. Bulletin of the Ontario Department for Game Fish 5: 1-39.

---------- 1933b. Tapeworm in rabbits. Canadian Field-Naturalist 47: 142.

LAW, R.G., AND A.H. KENNEDY. 1932. Parasites of fur-bearing animals. Bulletin of the Ontario Department for Game Fish 4: 1-30.

LAW, R.G., AND A.C. SECORD. 1931. Control of lungworm in silver foxes. North American Veterinarian 12: 42-44.

LEE, B.L., AND R.S. DORNEY. 1971. *Eimeria ontarioensis* n. sp., *E. confusa* Joseph, 1969 and *Eimeria* sp. (Protozoa: Eimeriidae) from the Ontario gray squirrel *Sciurus carolinensis*. Journal of Protozoology 18: 587-592.

LEE, C.-F. 1969. Larval *Echinococcus multilocularis* Leuckart, 1863 in the southern Interlake area in Manitoba, Canada. Canadian Journal of Zoology 47: 733-734.

LEE, T.D.G., AND K.A. WRIGHT. 1978. The morphology of the attachment and probable feeding site of the nematode *Trichuris muris* (Schrank, 1788) Hall, 1916. Canadian Journal of Zoology 56: 1889-1905.

LEIBY, P.D., G. LUBINSKY, AND W. GALAUGHER. 1969. Studies on sylvatic echinococcosis. II. The occurrence of *Echinococcus multilocularis* Leuck. 1863 in Manitoba. Canadian Journal of Zoology 47: 135-138.

LEPP, D.L., K.S. TODD, JR., AND W.M. SAMUEL. 1972. Four new species of *Eimeria* (Protozoa: Eimeriidae) from the pika *Ochotona princeps* from Alberta and *O. pallasi* from Kazakhstan. Journal of Protozoology 19: 192-195.

---------- 1973. *Eimeria banffensis* n. sp. (Protozoa: Eimeriidae) from the pika *Ochotona princeps* from Alberta. Transactions of the American Microscopical Society 92: 305-307.

LESTER, R.J.G., AND R.S. FREEMAN. 1976. Survival of two trematode parasites (*Diplostomum* spp.) in mammalian eyes and associated pathology. Canadian Journal of Ophthalmology 11: 229-234.

LEVINE, N.D., J.O. CORLISS, F.E.G. COX, et al. 1980. A newly revised classification of the protozoa. Journal of Protozoology 27: 37-58.

LEVINE, N.D., AND V. IVENS. 1963. *Eimeria siniffi* sp. n. and *E. arizonensis* (Protozoa: Eimeriidae) from deermice in British Columbia. Journal of Parasitology 49: 660-661.

LINCOLN, R.C., AND R.C. ANDERSON. 1973.

The relationship of *Physaloptera maxillaris* (Nematoda: Physalopteroidea) to skunk (*Mephitis mephitis*). Canadian Journal of Zoology 51: 437-441.

LOW, W.A. 1976. Parasites of woodland caribou in Tweedsmuir Provincial Park, British Columbia. Canadian Field-Naturalist 90: 189-191.

LUBINSKY, G. 1956. On the probable presence of parasitic liver cirrhosis in Canada. Canadian Journal of Comparative Medicine 20: 457-465.

---------- 1957. List of helminths from Alberta rodents. Canadian Journal of Zoology 35: 623-627.

---------- 1958. On the 12-hooked oncospheres of Canadian strains of *Echinococcus*. Canadian Journal of Zoology 36: 883-887.

LUBINSKY, G., AND R. BARON. 1970. *Taenia crassiceps* (Zeder, 1800) in metropolitan Winnipeg, Manitoba. Canadian Journal of Zoology 48: 1144-1145.

LUBINSKY, G., B.R. JACOBSEN, AND R.W. BARON. 1971. Wildlife foci of *Capillaria hepatica* infections in Manitoba. Canadian Journal of Zoology 49: 1201-1202.

MACDONALD, D.W., W.M. SAMUEL, AND J.O.C. HUNTER. 1976. Haemonchosis in a captive muskox calf. Canadian Veterinary Journal 17: 138-139.

MACE, T.F. 1976. Lesions in mink (*Mustela vison*) infected with giant kidney worm (*Dioctophyma renale*). Journal of Wildlife Diseases 12: 88-92.

MACE, T.F., AND R.C. ANDERSON. 1975. Development of the giant kidney worm, *Dioctophyma renale* (Goeze, 1782) (Nematoda: Dioctophymatoidea). Canadian Journal of Zoology 53: 1552-1568.

MACE, T.F., AND C.D. SHEPARD. 1981. Helminths of a Vancouver Island marmot, *Marmota vancouverensis* Swarth, 1911, with a description of *Diandrya vancouverensis* sp. nov. (Cestoda: Anoplocephalidae). Canadian Journal of Zoology 59: 790-792.

MacKINNON, B.M., AND M.D.B. BURT. 1978. Platyhelminth parasites of muskrats (*Ondatra zibethica*) in New Brunswick. Canadian Journal of Zoology 56: 350-354.

MAHRT, J.L., AND S.J. CHAI. 1970. Prevalence of coccidia in red squirrels (*Tamiasciurus hudsonicus*) in Alberta. Canadian Journal of Zoology 48: 606.

---------- 1972. Parasites of red squirrels in Alberta, Canada. Journal of Parasitology 58: 639-640.

MAHRT, J.L., AND D.D. COLWELL. 1980. *Sarcocystis* in wild ungulates in Alberta. Journal of Wildlife Diseases 16: 571-576.

MALTAIS, P.M., AND E.A. OUELLETTE. 1979. *Dirofilaria scapiceps* (Leidy, 1886) from the snowshoe hare, *Lepus americanus struthopus* Bangs, in New Brunswick, Canada. Le Naturaliste Canadien 106: 561-562.

McGEE, S.G. 1980. Helminth parasites of squirrels (Sciuridae) in Saskatchewan. Canadian Journal of Zoology 58: 2040-2050.

McKENZIE, C.E., AND H.E. WELCH. 1979. Parasite fauna of the muskrat, *Ondatra zibethica* (Linnaeus, 1766), in Manitoba, Canada. Canadian Journal of Zoology 57: 640-646.

McLEOD, J.A. 1933. A parasitological survey of the genus *Citellus* in Manitoba. Canadian Journal of Research, Section D, Zoological Sciences 9: 108-127.

McNEILL, M.A., M.E. RAU, AND F. MESSIER. 1984. Helminths of wolves (*Canis lupus* L.) from southwestern Quebec. Canadian Journal of Zoology 62: 1659-1660.

MEASURES, L.N., AND R.C. ANDERSON. 1983a. Characteristics of natural infections of the stomach worm, *Obeliscoides cuniculi* (Graybill), in lagomorphs and woodchucks in Canada. Journal of Wildlife Diseases 19: 219-224.

---------- 1983b. New subspecies of the stomach worm, *Obeliscoides cuniculi* (Graybill), of lagomorphs. Proceedings of the Helminthological Society of Washington 50: 1-14.

---------- 1984. Hybridization of *Obeliscoides cuniculi cuniculi* (Graybill, 1923) Graybill, 1924 and *Obeliscoides cuniculi multistriatus* Measures and Anderson, 1983. Proceedings of the Helminthological Society of Washington 51: 179-186.

MILLER, M.J. 1940. A new trematode, *Fibricola laruei*, from the raccoon in Canada. Canadian Journal of Research, Section D, Zoological Sciences 18: 333-335.

MOYNIHAN, I.W., AND I.W. MUSFELDT. 1949. A study of the incidence of trichinosis in rats in British Columbia. Canadian Journal of Comparative Medicine 13: 152-155.

PATERSON, W.B., AND P.T.K. WOO. 1984. The development of the culture and bloodstream forms of three *Trypanosoma* (*Schizotrypanum*) spp. (Protista: Zoomastigophorea) from bats in *Cimex*

lectularius (Hemiptera: Cimicidae). Canadian Journal of Zoology 62: 1581-1587.

---------- 1954. The life cycles of *Alaria arisaemoides* Augustine and Uribe, 1927, *Alaria canis* LaRue and Fallis, 1936 (Trematoda: Diplostomidae), parasites of the red fox, *Vulpes fulva* (Desmarest). Journal of Parasitology 40 (section 2): 37-38.

---------- 1956. Studies on the life cycles and morphology of the larval stages of *Alaria arisaemoides* Augustine and Uribe, 1927 and *Alaria canis* LaRue and Fallis, 1936 (Trematoda: Diplostomidae). Canadian Journal of Zoology 34: 295-387.

PENCE, D.B., H.P. SAMOIL, AND J.E. STONE. 1978. Spirocercid stomach worms (Nematoda: Spirocercidae) from wild felids in North America. Canadian Journal of Zoology 56: 1032-1042.

PETERSON, R.L. 1955. North American Moose. University of Toronto Press, Toronto (See pp. 181-192).

PLATT, T.R. 1978. A report of *Polymorphus paradoxus* (Acanthocephala) in *Microtus pennsylvanicus* from Hastings Lake, Alberta (Canada). Proceedings of the Helminthological Society of Washington 45: 255.

PLATT, T.R., AND W.M. SAMUEL. 1978a. *Parelaphostrongylus odocoilei*: Life cycle in experimentally infected cervids including the mule deer, *Odocoileus h. hemionus*. Experimental Parasitology 46: 330-338.

---------- 1978b. A redescription and neotype designation for *Parelaphostrongylus odocoilei* (Nematoda: Metastrongloidea). Journal of Parasitology 64: 226-232.

PLEDGER, D.J., W.M. SAMUEL, AND D.A. CRAIG. 1980. Black flies (Diptera, Simuliidae) as possible vectors of legworm (*Onchocerca cervipedis*) in moose of central Alberta. Proceedings of the North American Moose Conference Workshop 16: 171-202.

POOLE, B.C., K. CHADEE, AND T.A. DICK. 1983. Helminth parasites of pine marten, *Martes americana* (Turton), from Manitoba, Canada. Journal of Wildlife Diseases 19: 10-13.

POOLE, J.B. 1952. A survey of the incidence of trichinosis in rats in BC. Canadian Journal of Comparative Medicine 16: 291-293.

PRESIDENTE, P.J.A., AND L.H. KARSTAD. 1975a. *Hepatozoon* sp. infection in mink from southwestern Ontario. Journal of Wildlife Diseases 11: 479-481.

PRESIDENTE, P.J.A., AND R.O. RAMSDEN. 1975b. *Paragonimus kellicotti* infection in wild carnivores in southwestern Ontario: II. Histopathologic features. Journal of Wildlife Diseases 11: 364-375.

PRICE, E.W. 1929. Two new species of trematodes of the genus *Parametorchis* from fur-bearing animals. Proceedings of the United States National Museum 76: 1-5.

---------- 1931. *Hepaticola hepatica* in liver of *Ondatra zibethica*. Journal of Parasitology 18: 51.

---------- 1932. The occurrence of *Euparyphium inerme* (Fuhrmann) in North America. Journal of Parasitology 19: 311.

---------- 1934. A new trematode from a beaver. Proceedings of the Helminthological Society of Washington 1: 1-2.

PYBUS, M.J., W.J. FOREYT, AND W.M. SAMUEL. 1984. Natural infections of *Parelaphostrongylus odocoilei* (Nematoda: Protostrongylidae) in several hosts and locations. Proceedings of the Helminthological Society of Washington 51: 338-340.

PYBUS, M.J., AND W.M. SAMUEL. 1980 Pathology of the muscleworm *Parelaphostrongylus odocoilei* (Nematoda: Metastrongyloidea), in moose. Proceedings of the North American Moose Conference Workshop 16: 152-170.

---------- 1981. Nematode muscleworm from white-tailed deer of southeastern British Columbia. Journal of Wildlife Management 45: 537-542.

QUINN, P.J., R.O. RAMSDEN, AND D.H. JOHNSTON. 1976. Toxoplasmosis: A serological survey in Ontario wildlife. Journal of Wildlife Diseases 12: 504-510.

RAMSDEN, R.O., AND P.J.A. PRESIDENTE. 1975. *Paragonimus kellicotti* infection in wild carnivores in southwestern Ontario: I. Prevalence and gross pathologic features. Journal of Wildlife Diseases 11: 136-141.

RAU, M.E., AND F.R. CARON. 1979. Parasite-induced susceptibility of moose to hunting. Canadian Journal of Zoology 57: 2466-2468.

RAU, M.E., AND C.E. TANNER. 1972. *Echinococcus multilocularis* in the cotton rat. Asexual proliferation following the intraperitoneal inoculation of graded doses of protoscolices. Canadian Journal of Zoology 50: 941-946.

---------- 1973. *Echinococcus multilocularis* in the cotton rat. The effect of preexisting subcutaneous cysts on the development of a

subsequent intraperitoneal inoculum of protoscolices. Canadian Journal of Zoology 51: 55-59.

RAUSCH, R.L. 1952b. Studies on the helminth fauna of Alaska. XI. Helminth parasites of microtine rodents-taxonomic considerations. Journal of Parasitology 38: 415-444.

RAUSCH, R.L., AND J.D. TINER. 1948. Studies on the parasitic helminths of the North Central States. I. Helminths of sciuridae. American Midland Naturalist 39: 728-747.

RAUSCH, R.L., AND J.P. TINER. 1949. Studies on the parasitic helminths of the North Central States. II. Helminths of voles (*Microtus* ssp.) Preliminary report. American Midland Naturalist 41: 665-694.

RIEDEL, D. 1975. Reproduction, structure and host specificity of *Trypanosoma* (*Herpetosoma*) *tamiasi* sp. n. from the eastern chipmunk, *Tamias striatus*. Journal of Protozoology 22: 8-17.

RIGBY, M.D., AND W. THRELFALL. 1981. Helminth parasites of the muskrat (*Ondatra zibethicus* (L.)) in Newfoundland. Canadian Journal of Zoology 59: 2172-2176.

RITCEY, R.W., AND R.Y. EDWARDS. 1958. Parasites and diseases of the Wells Gray moose herd. Journal of Mammalogy 39: 139-145.

SAMOIL, H.P., AND W.M. SAMUEL. 1977a. Experimental study of *Eimeria robertsoni* (Protozoa: Eimeriidae) in the snowshoe hare, *Lepus americanus*. Journal of Parasitology 63: 203-205.

---------- 1977b. Description of nine species of *Eimeria* (Protozoa, Eimeriidae) in the snowshoe hare, *Lepus americanus*, of central Alberta. Canadian Journal of Zoology 55: 1671-1683.

SAMUEL, W.M. 1972a. *Taenia krabbei* in the musculature of moose: a review. Paper presented at 8th North American Moose Conference Workshop, Thunder Bay, Ontario, February, 1972. pp. 18-41.

---------- 1972b. Encounters between hunters and parasites of moose in Alberta. Occasional paper No. 2. Alberta Fish and Wildlife Division 21pp.

SAMUEL, W.M., M.W. BARRETT, AND G.M. LYNCH. 1976. Helminths in moose of Alberta. Canadian Journal of Zoology 54: 307-312.

SAMUEL, W.M., AND D.R. GRAY. 1974. Parasitic infection in muskoxen. Journal of Wildlife Management 38: 775-782.

SAMUEL, W.M., AND J.C. HOLMES. 1974. Search for elaphostrongyline parasites in cervids from Alberta. Canadian Journal of Zoology 52: 401-403.

SAMUEL, W.M., W.K. HALL, J.G. STELFOX, AND W.D. WISHART. 1978. Parasites of moutain goat, *Oreamnos americanus* (Blainville), of west central Alberta with a comparison of the helminths of mountain goat and Rocky Mountain bighorn sheep, *Ovis c. canadensis* Shaw. Proceedings of the 1st International Mountain Goat Symposium, Kalispell, Montana 1: 212-215.

SAMUEL, W.M., S. RAMALINGAM, AND L.N. CARBYN. 1978. Helminths in coyotes (*Canis latrans* Say), wolves (*Canis lupus* L.), and red foxes (*Vulpes vulpes* L.) of southwestern Manitoba. Canadian Journal of Zoology 56: 2614-2617.

SAUNDERS, B.P. 1973. Meningeal worm in white-tailed deer in northwestern Ontario and moose population densities. Journal of Wildlife Management 37: 327-330.

SCHAD, G.A. 1954. Helminth parasites of mice in northeastern Quebec and the coast of Labrador. Canadian Journal of Zoology 32: 215-224.

---------- 1956. Helminths recovered from deer mice, *Peromyscus maniculatus*, trapped in the Morgan Arboretum, Macdonald College, province of Quebec. Canadian Journal of Zoology 34: 208.

SCHILLER, E.L. 1952. Studies on the helminth fauna of Alaska. X. Morphological variation in *Hymenolepis horrida* (von Linstow, 1901) (Cestoda: Hymenolepididae). Journal of Parasitology 38: 554-568.

SCHMIDT, G.D. 1986. CRC Handbook of Tapeworm Identification. 688 pp.

SCHMITT, N., E.J. BOWMER, P.C. SIMON, A.S. ARNEIL, AND D.A. CLARK. 1972. Trichinosis from bear meat and adulterated pork products: a major outbreak in British Columbia, 1972. Can. Med. Assoc. J. 107: 1087-1091.

SCHMITT, N., J.M. SAVILLE, J.A. GREENWAY, P.L. STOVELL, L. FRIIS, AND L. HOLE. 1978. Sylvatic trichinosis in British Columbia. Public Health Report 93: 189-193.

SCHOWALTER, D.B., J.O. IVERSEN, L.C. CORNER, AND J.R. GUNSON. 1980. Prevalence of antibodies to *Toxoplasma gondii* in striped skunks from Saskatchewan and Alberta. Journal of Wildlife Diseases 16: 189-194.

SHANTA, C.S., AND E. MEEROVITCH. 1967a.

The life cycle of *Trichinella spiralis*. I. The intestinal phase of development. Canadian Journal of Zoology 45: 1255-1260.

---------- 1967b. The life cycle of *Trichinella spiralis*. II. The muscle phase of development and its possible evolution. Canadian Journal of Zoology 45: 1261-1267.

SHOSTAK, A.W., AND W.M. SAMUEL. 1984. Moisture and temperature effects on survival and infectivity of first-stage larvae of *Parelaphostrongylus odocoilei* and *P. tenuis* (Nematoda: Metastrongyloidea). Journal of Parasitology 70: 261-269.

SIMON, C.E. 1921. *Giardia* in field mice in Nova Scotia. Journal of Parasitology 7: 190.

SKINKER, M.S. 1935. A redescription of *Taenia tenuicollis* Rudolphi, 1819, and its larva, *Cysticercus talpae Rudolphi*, 1819. Parasitology 27: 175-185.

SLEGGS, G.F. 1925. A strongyloid nematode, *Warrenius bifurcatus* n. sp., from the Richardson ground squirrel. Parasitology 17: 410-416.

SMITH, F.R., AND W. THRELFALL. 1973. Helminths of some mammals from Newfoundland. American Midland Naturalist 90: 215-218.

SMITH, H.J. 1967. The sclerostome, *Castorstrongylus castoris* Chapin, 1925, in two New Brunswick beaver. Canadian Journal of Zoology 45: 893.

---------- 1978b. Parasites of red foxes in New Brunswick and Nova Scotia. Journal of Wildlife Diseases 14: 366-370.

SMITH, H.J., AND R. McG. ARCHIBALD. 1967. On the incidence of gastrointestinal parasites in Nova Scotia beaver. Canadian Journal of Zoology 45: 659-661.

SMITH, H.J., R. McG. ARCHIBALD, AND A.H. CORNER. 1964. Elaphostrongylosis in maritime moose and deer. Canadian Veterinary Journal 5: 287-296.

SOON, B.-L., AND R.S. DORNEY. 1969a. Observations on a coccidium (*Eimeria dorneyi*) from the northern flying squirrel in Ontario. Bulletin of the Wildlife Disease Association 5: 37-38.

SPRENT, J.F.A. 1952. On an *Ascaris* parasite of the fisher and marten, *Ascaris devosi* sp. nov.. Proceedings of the Helminthological Society of Washington 19: 27-37.

STAFFORD, J. 1905. Trematodes from Canadian vertebrates. Zoologischer Anzeiger 28: 681-694.

STELFOX, J.G. 1962. Liver, lungs and larvae. Parasites and diseases in moose, deer and elk in Alberta. Alberta Lands, Forests, and Wildlife Annual Report 5: 5-12.

STOCK, T.M., AND M.W. BARRETT. 1983. Helminth parasites of the gastrointestinal tracts and lungs of moose (*Alces alces*) and wapiti (*Cervus elaphus*) from Cypress Hills, Alberta, Canada. Proceedings of the Helminthological Society of Washington 50: 246-251.

STOCKDALE, P.H.G. 1970a. Pulmonary lesions in mink with a mixed infection of *Filaroides martis* and *Perostrongylus pridhami*. Canadian Journal of Zoology 48: 757-759.

---------- 1970b. The development, route of migration, and pathogenesis of *Perostrongylus pridhami* in mink. Journal of Parasitology 56: 559-566.

STOCKDALE, P.H.G., AND R.C. ANDERSON. 1970. The development, route of migration, and pathogenesis of *Filaroides martis* in mink. Journal of Parasitology 56: 550-558.

STOCKDALE, P.H.G., M.A. FERNANDO, AND R. CRAIG. 1974. The development, route of migration, and pathogenesis of *Crenosoma mephitidis* in the skunk (*Mephitis mephitis*). Canadian Journal of Zoology 52: 681-685.

SWALES, W.E. 1933b. A review of Canadian helminthology: II. Additions to Part I, as determined from a study of parasitic helminths collected in Canada. Canadian Journal of Research, Section D, Zoological Sciences 8: 478-482.

---------- 1934. *Skrjabinema oreamni* sp. nov., a nematode parasite of *Oreamnos americanus* and *Rangifer* sp. in Canada. Canadian Journal of Research, Section D, Zoological Sciences 10: 527-531.

---------- 1935. The life cycle of *Fascioloides magna* (Bassi, 1875), the large liver fluke of ruminants, in Canada with observations on the bionomics of the larval stages and the intermediate hosts, pathology of Fascioloidiasis magna, and control measures. Canadian Journal of Research, Section D, Zoological Sciences 12: 177-215.

---------- 1936. Further studies on *Fascioloides magna* (Bassi, 1875) Ward, 1917, as a parasite of ruminants. Canadian Journal of Research Section D, Zoological Sciences 14: 83-95.

---------- 1938. *Skrjabingylus nasicola* (Leuckart, 1842) Petrow, 1927, a nematode parasitic in the frontal sinuses of American Mustelidae. Livre Jubilar do Professor Lauro Travassos, Rio de Janeiro, pp. 455-458.

SWEATMAN, G.K. 1952a. Distribution and incidence of *Echinococcus granulosus* in man and other animals with special reference to Canada. Canadian Journal of Public Health 43: 480-486.

---------- 1952b. Endoparasites of muskrats in the vicinity of Hamilton, Ontario. Journal of Mammalogy 33: 248-250.

SWEATMAN, G.K., AND T.C. HENSHALL. 1962. The comparative biology and morphology of *Taenia ovis* and *T. krabbei*, with observations on the development of *T. ovis* in domestic sheep. Canadian Journal of Zoology 40: 1287-1311.

SWEATMAN, G.K., AND P.J.G. PLUMMER. 1957. The biology and pathology of the tapeworm *Taenia hydatigena* in domestic and wild hosts. Canadian Journal of Zoology 35: 93-109.

SWEATMAN, G.K., AND R.J. WILLIAMS. 1963. Comparative studies on the biology and morphology of *Echinococcus granulosus* from domestic livestock, moose and reindeer. Parasitology 53: 339-390.

THRELFALL, W. 1967. Parasites of moose (*Alces alces*) in Newfoundland. Journal of Mammalogy 48: 668-669.

---------- 1969. Further records of helminths from Newfoundland mammals. Canadian Journal of Zoology 47: 197-201.

TINER, J.D. 1950. Two new species of *Trichuris* from North America, with redescriptions of *Trichuris opaca* and *Trichuris leporis* (Nematoda: Aphasmidea). Journal of Parasitology 36: 350-355.

TIZARD, I.R., J.B. BILLETT, AND R.O. RAMSDEN. 1976. The prevalence of antibodies against *Toxoplasma gondii* in some Ontario mammals. Journal of Wildlife Diseases 12: 322-325.

TIZARD, I.R., J. HARMESON, AND C.H. LAI. 1978. The prevalence of serum antibodies to *Toxoplasma gondii* in Ontario mammals. Canadian Journal of Comparative Medicine 42: 177-183.

UHAZY, L.S., J.C. HOLMES, AND J.G. STELFOX. 1973. Lungworms in the Rocky Mountain bighorn sheep of western Canada. Canadian Journal of Zoology 51: 817-824.

UHAZY, L.S., J.L. MAHRT, AND J.C. HOLMES. 1971. Coccidia of Rocky Mountain bighorn sheep in Western Canada. Canadian Journal of Zoology 49: 1461-1464.

WALKER, M.L., AND W.W. BECKLUND. 1970. Checklist of the internal and external parasites of deer, *Odocoileus hemionus* and *O. virginianus*, in the United States and Canada. Special Publication 1. Index Catalogue of Medical and Veterinary Zoology, National Animal Parasite Laboratory, Veterinary Science Research Division Agricultural Research Services 1-45.

WATSON, E.A., AND S. HADWEN. 1912. Trypanosomes found in Canadian mammals. Parasitology 5: 21-26.

WATSON, T.G. 1981. Growth of *Metorchis conjunctus* (Cobbold, 1860) Looss, 1899 (Trematoda: Opisthorchiidae) in the bile ducts of various definitive hosts. Canadian Journal of Zoology 59: 2014-2019.

WEBSTER, G.A., AND T.W.M. CAMERON. 1961. Observations on experimental infections with *Echinococcus* in rodents. Canadian Journal of Zoology 39: 877-892.

WEBSTER, G.A., AND R.W. WOLFGANG. 1956. *Alaria canadensis* sp. nov. and *Euryhelmis pyriformis* sp. nov. from the skunk *Mephitis mephitis* in Quebec. Canadian Journal of Zoology 34: 595-601.

WEBSTER, W.A. 1964. *Crenosoma canadensis* n. sp. (Nematoda: Metastrongylidae) from the lungs of skunks. Canadian Journal of Zoology 42: 807-809.

---------- 1965. *Skrjabingylus magnus* n. sp. (Nematoda: Trichostrongylidae) from the skunk, *Mephitis mephitis*. Canadian Journal of Zoology 43: 229-231.

---------- 1966a. Microfilariae in Ontario skunks: Final report. Canadian Journal of Zoology 44: 495.

---------- 1966b. A morphological description of *Capillaria michiganensis* Read, 1949: Male and female. Canadian Journal of Zoology 44: 982-983.

---------- 1967a. *Filaroides mephitis* n. sp. (Metastrongyloidea: Filaroididae) from the lungs of eastern Canadian skunks. Canadian Journal of Zoology 45: 145-147.

---------- 1967b. *Ackertia marmotae* n. sp. (Filarioidea: Onchocercinae) from the groundhog (*Marmota monax*). Canadian Journal of Zoology 45: 277-283.

---------- 1974. Records of cestodes in varying lemmings and an arctic fox from Bathurst Island, Northwest Territories. Canadian Journal of Zoology 52: 1425-1426.

---------- 1980. The direct transmission of *Andersonstrongylus captivensis* Webster 1978 (Metastrongyloidea: Angiostrongylidae) in captive skunks *Mephitis mephitis* (Schreber). Canadian Journal of Zoology 58: 1200-1203.

WEBSTER, W.A., AND M. BEAUREGARD.

1964. *Microfilaria mephitis* n. sp. (Filarioidea: Dipetalonematidae) from the brain of a skunk: with notes on its occurrence in Ontario. Canadian Journal of Zoology 42: 811-815.

---------- 1965. *Dipetalonema mephitis* n. comb. (*Microfilaria mephitis*: Webster and Beauregard, 1964) from the skunk, *Mephitis mephitis*. Canadian Journal of Zoology 43: 325-332.

WEBSTER, W.A., AND G.A. CASEY. 1970. The occurrence of *Dracunculus insignis* (Leidy, 1858) Chandler, 1942 in a skunk from Ontario, Canada. Journal of Wildlife Diseases 6: 71.

---------- 1973. Studies on the parasites of Chiroptera. III. Helminths from various bat species collected in British Columbia. Canadian Journal of Zoology 51: 633-636.

WEBSTER, W.A., AND R.R. MACKAY. 1969. Two new host records for *Nematodirus* species. Canadian Journal of Zoology 47: 1411.

WEBSTER, W.A., AND J. ROWELL. 1980. Some helminth parasites from the small intestine of free-ranging muskoxen *Ovibos moschatus* (Zimmermann) of Devon and Ellesmere Islands, Northwest Territories. Canadian Journal of Zoology 58: 304-305.

WESTERMANN, J.E.M., AND V.E. ENGELBERT. 1969. Numbers of granulocytes on thymic imprints of rabbits of different ages and degrees of coccidial parasitism. Canadian Journal of Zoology 47: 1355-1362.

WOBESER, G. 1976. Besnoitiosis in a woodland caribou. Journal of Wildlife Diseases 12: 566-571.

WOBESER, G., A.A. GAJADHAR, AND H.M. HUNT. 1985. *Fascioloides magna*: Occurrence in Saskatchewan and distribution in Canada. Canadian Veterinary Journal 26: 241-244.

WOBESER, G., AND T.W. ROCK. 1973. *Capillaria hepatica* (Nematoda: Trichuridae) in a coyote (*Canis latrans*). Journal of Wildlife Diseases 9: 225-226.

WOBESER, G., W. RUNGE, AND R.R. STEWART. 1983. *Metorchis conjunctus* (Cobbold, 1860) infection in wolves (*Canis lupus*), with pancreatic involvement in two animals. Journal of Wildlife Diseases 19: 353-356.

WOBESER, G., AND J.C.L. SCHUH. 1979. Microsporidal encephalitis in muskrats. Journal of Wildlife Diseases 15: 413-417.

WOLFGANG, R.W. 1956. *Dochmoides yukonensis* sp. nov. from the brown bear (*Ursus americanus*) in the Yukon. Canadian Journal of Zoology 34: 21-27.

WOO, P.T.K., D.R. GRANT, AND L. McLEAN. 1980. Trypanosomes of small mammals in southern Ontario. Canadian Journal of Zoology 58: 567-571.

WRIGHT, K.A. 1961. Observations on the life cycle of *Capillaria hepatica* (Bancroft, 1893) with a description of the adult. Canadian Journal of Zoology 38: 167-182.

---------- 1972. The fine structure of the esophagus of some trichuroid nematodes. I. The stichosome of *Capillaria hepatica*, *Trichuris myocastoris*, and *Trichuris vulpis*. Canadian Journal of Zoology 50: 319-324.

YAMAGUTI, S. 1959. Systema Helminthum. Volume 2. The Cestoda of Vertebrates. 860 pp. Interscience Publishing Incorporated, New York.

---------- 1971. Synopsis of Digenetic Trematodes of Vertebrates. 1074 pp. Keigaku Publishing Company, Tokyo.

ZYLL DE JONG, C.G. VAN. 1966. Parasites of the Canada lynx, *Felis* (*Lynx*) *canadensis* (Kerr). Canadian Journal of Zoology 44: 499-509.

SUPPLEMENTARY READING

AMEEL, D.J. 1932. The muskrat, a new host for *Paragonimus*. Science 75: 382.

ANDERSON, R.C. 1951. A species of *Dirofilaria* from the black bear (*Euarctos a. americana*) Journal of Parasitology (suppl.). 37: 25.

---------- 1965b. Cerebrospinal nematodiasis (*Pneumostrongylus tenuis*) in North American cervids. Transactions of the 13th North American Wildlife Conference 30: 156-167.

---------- 1968. The pathogenesis and transmission of neurotropic and accidental nematode parasites of the central nervous system of mammals and birds. Helminthological Abstracts 37: 191-210.

---------- 1971a. Lungworms, p. 81-126. In: Davis, J.W. and R. C. Anderson (eds.) Parasitic disease of wild animals. Iowa State University Press.

---------- 1972. The ecological relationships of meningeal worm and native cervids in North America. Journal of Wildlife Diseases 8: 304-310.

ANDERSON, R.C., AND M.W. LANKESTER. 1974. Infectious and parasitic diseases and arthropod pests of moose in North America. Nature Canada (Ottawa) 101: 23-50.

ANONYMOUS 1932. Report of the experimental fur farm. Ontario Department of Game Fish. Annual Report 25 (1931): 8-43.

---------- 1967. Status of wildlife research projects for the year, 1966. Ontario Department of Lands and Forests Section Report (Wildlife) 65: 1-52. (See pp. 11-35).

BARTLETT, C.M. 1983b. *Cercopithifilaria leporinus* n. sp. (Nematoda: Filarioidea) from the snowshoe hare (*Lepus americanus* Erxleben) (Lagomorpha) in Canada. Annales de Parasitologie Humaine et Comparee 58: 275-283.

BAUGH, S.C. 1958. Contributions to our knowledge of digenetic trematodes. Proceedings of the National Academy of Sciences, India, Section B (Biological Sciences) 28: 205-226.

BECKLUND, W.W., AND C.M. SENGER. 1967. Parasites of *Ovis canadensis canadensis* in Montana with a checklist of the internal and external parasites of the Rocky Mountain bighorn sheep in North America. Journal of Parasitology 53: 157-165.

BECKLUND, W.W., AND M.L. WALKER. 1970. Checklist of the internal and external parasites of deer, *Odocoileus hemionus* and *O. virginianus*, in the United States and Canada. Index-Catalogue of Medical and Veterinary Zoology. Special Publication No. 1. 45 pp.

BERNARD, M.A. 1971. Dirofilariasis in Canada. Canadian Veterinary Journal 12: 139.

BROUGHTON, E., AND L.P.E. CHOQUETTE. 1969. Additional information and comments on disease conditions and parasites of barren-ground caribou. Transactions of the 33rd Federal-Provincial Wildlife Conference, Edmonton, Alta. pp. 30-39.

BROWN, J.H., AND G.D. ROY. 1943. The Richardson ground squirrel, *Citellus richardsoni* Sabine, in southern Alberta: its importance and control. Science in Agriculture Review of Agronomy Canada 24: 176-197.

BROWN, M., ET AL. 1949. A note on trichinosis in animals of the Canadian Northwest Territories. Canadian Journal of Public Health 40: 20-21.

CAMERON, T.W.M. 1938. On the morphology and parasitic development of *Travassosius rufus* Khalil, 1922, a trichostrongyle parasite of the Canadian beaver (*Castor canadensis canadensis*). Libro Jubilar L. Travassos, Rio de Janeiro. pp. 103-106.

---------- 1944. The morphology, taxonomy and life history of *Metorchis conjunctus* (Cobbold, 1860). Canadian Journal of Research Section D, Zoological Sciences 22: 6-16.

CAWTHORN, R.J., AND R.J. BROOKS. 1985. Histological observations on precystic merogony and metrocyte formation of *Sarcocystis rauschorum* (Apicomplexa: Sarcocystidae) in varying lemmings, *Dicrostonyx richardsoni*. Canadian Journal of Zoology 63: 2907-2912.

CHITWOOD, B.G. 1932. The occurrence of *Uncinaria stenocephala* from the fisher, *Mustela* sp. Journal of Parasitology 19: 307.

CRUM, J.M., R. FAYER, AND A.K. PRESTWOOD. 1981. *Sarcocystis* spp. in white-tailed deer. I. Definitive and intermediate host spectrum with a description of *S. odocoileocanis* n. sp.. Journal of Wildlife Diseases 17: 567-578.

DEROTH, L., AND J.L. FRECHETTE. 1975.

Dracunculus insignis (Leidy, 1858) chez un berger allemand. Canadian Veterinary Journal 16: 176-178.

DE VOS, A. 1957. Pregnancy and parasites of marten. Journal of Mammalogy 38: 412.

DIKMANS, G. 1941. A new nematode, *Skrjabinema parva* (Nematoda: Oxyuroidea), from deer. Proceedings of the Helminthological Society of Washington 9: 66-68.

DORAN, D.J. 1954a. A catalogue of the Protozoa and helminths of North American rodents. I. Protozoa and Acanthocephala. American Midland Naturalist 52: 118-128.

---------- 1954b. A catalogue of the Protozoa and helminths of North American rodents. II. Cestoda. American Midland Naturalist 52: 469-480.

---------- 1955a. A catalogue of the Protozoa and helminths of North American rodents. III. Nematoda. American Midland Naturalist 53: 162-175.

---------- 1955b. A catalogue of the Protozoa and helminths of North American rodents. IV. Trematoda. American Midland Naturalist 53: 446-454.

DRAPER, D.J. 1952. Post-mortem examinations of deer shot in Rondeau Provincial Park in January, 1952. Ontario Department of Lands and Forests, Wildlife Research Report 1: 1-3.

DYER, W.G. 1969. A checklist of the Protozoa and helminths of the deer mouse, *Peromyscus maniculatus*, in North America. American Midland Naturalist 81: 258-262.

ERICKSON, A.B. 1938. Parasites of some Minnesota Cricitidae and Zapodidae, and a host catalogue of helminth parasites of native American mice. American Midland Naturalist 20: 575-589.

---------- 1950. Helminths of Minnesota Canidae in relation to food habits, and a host list and key to the species reported from North America. American Midland Naturalist 32: 358-372.

FRANK, J.F. 1952. A study of the incidence of trichinosis in swine in the maritime provinces. Canadian Journal of Comparative Medicine 16: 73-77.

FRECHETTE, J.L., AND M. PANISSET. 1973. Contribution a l'etude de l'epizootiologie de la trichinose au Quebec. Canadian Journal of Public Health 64: 443-444.

FYVIE, A. 1969. Manual of common parasites, diseases, and anomalies of wildlife in Ontario. Department of Lands and Forests. 102 pp.

GIBBS, H.C. 1964. Observations on an outbreak of clinical parasitism in ewes during the winter months. Canadian Veterinary Journal 5: 8-11.

HOLMES, J.C. 1973. Site selection by parasitic helminths: interspecific interactions, site segregation, and their importance to the development of helminth communities. Canadian Journal of Zoology 51: 333-347.

KINGSCOTE, A.A. 1938. Common parasites of Canadian animals. Canadian Journal of Comparative Medicine 2: 47-55.

KUITUNEN-EKBAUM, E., AND D. WEBSTER. 1947. Trichinosis in wild rats in Toronto. Canadian Journal of Public Health 38: 76-78.

LANKESTER, M.W. 1976. A protostrongylid nematode of woodland caribou and implications in moose management. Proceedings of the 12th North American Moose Conference Workshop. St. John's, Newfoundland. 173-190.

---------- 1984. Pests, parasites and diseases of moose (*Alces alces*) in North America. In press.

LANKESTER, M.W., AND J.B. SNIDER. 1982. *Rumenfilaria andersoni* n. gen., n. sp. (Nematoda: Filarioidea) in moose, *Alces alces* (L.), from northwestern Ontario, Canada. Canadian Journal of Zoology 60: 2455-2458.

LEIBY, P.D., AND W.G. DYER. 1971. Cyclophyllidean tapeworms of wild Carnivora. Parasitic disease of wild mammals. Ed. J.W. Davis and R.C. Anderson. Iowa State University Press, Iowa. 174-234.

MAGATH, T.B. 1954. The importance of sylvatic hydatid disease. Journal of the American Veterinary Medical Association 125: 411-414.

NEILAND, K.A., AND C. DUKEMINIER. 1972. A bibliography of the parasites, disease, and disorders of several important wild ruminants of the northern hemisphere. Alaska Department of Fisheries, Game, and Wildlife Technical Bulletin No. 3, 151p.

OLSEN, O.W., AND R. FENSTERMACHER. 1942. Parasites of moose in northern Minnesota. American Journal of Veterinary Research 3: 403-408.

PARNELL, I.W. 1934. Animal parasites of Northeast Canada. Canadian Field-Naturalist 48: 111-115.

PEARSON, J.C. 1951. A species of *Alaria* from the marten (*Martes a. americana*). Journal of Parasitology 37 (supplement): 25.

PYBUS, M.J., AND W.M. SAMUEL. 1984. Attempts to find a laboratory host for *Parelaphostrongylus andersoni* and *Parelaphostrongylus ododoilei* (Nematoda: Protostrongylidae). Canadian Journal of Zoology 62: 1181-1184.

---------- 1984. *Parelaphostrongylus andersoni* (Nematoda: Protostrongylidae) and *P. odocoilei* in two cervid definitive hosts. Journal of Parasitology 70: 507-515.

RAUSCH, R. L. 1952a. Hydatid disease in boreal regions. Arctic 5: 157-174.

RILEY, W.A. 1939. The need for data relative to the occurrence of hydatids and of *Echinococcus granulosus* in wildlife. Journal of Wildlife Management 3: 255-257.

ROGERS, L.L., AND S.M. ROGERS. 1976. Parasites of bears: a review. Bears - their biology and management. Edited by M.R. Pelton, G.E. Folk, and J.F. Leatfer. IUCN Publication New Series 40. Morges, Switzerland. pp. 411-430.

ROUNTREE, J.L., J.F. WITTER, AND H.L. CHUTE. 1954. Acute lungworm infection. A case report. Veterinary Medicine 49: 306-307.

SAMSON, J., AND J.C. HOLMES. 1985a. The effect of temperature on rates of development of larval *Protostrongylus* spp. (Nematoda: Metastrongyloidea) from bighorn sheep, *Ovis canadensis canadensis* in the snail *Valbria pulchella*. Canadian Journal of Zoology 63: 1445-1448.

---------- 1985b. Modes of entry of first stage larvae of *Protostrongylus stilesi* and *P. rushi* (Nematoda: Metastrongyloidea) in the snail intermediate host *Vallania pulchella*. Canadian Journal of Zoology 63: 2481-2482.

SAMUEL, W.M. 1968. Endoparasites of domestic ruminants and white-tailed deer. Report and Transactions of the 33rd North American Wildlife and Natural Resources Conference. 1968.

SAMUEL, W.M., T.R. PLATT, AND S.M. KNISPEL-KRAUSE. 1985. Gastropod intermediate hosts and transmission of *Parelaphostrongylus odocoilei*, a muscle-inhabiting nematode of mule deer, *Odocoileus h. hemionus*, in Jasper National Park, Alberta. Canadian Journal of Zoology 63: 928-932.

SAUNDERS, B.P. 1974. Prevalence of *Parelaphostrongylus tenuis* in white-tailed deer in northwestern Ontario related to moose population densities. Journal of Wildlife Management (PRESS)

SCOTT, J.W. 1941. A new genus and new species of tapeworm from the bighorn sheep. Anatomical Record 81: 65-66.

SOON, B.-K, AND R.S. DORNEY. 1969b. Occurrence of *Eimeria tamiasciuri* in Ontario red squirrels (*Tamiasciurus hudsonicus*). Canadian Journal of Ecology 47: 731-732.

SPENCER, G.J. 1937. The menace of rat parasites in Vancouver in 1936. Entomological Society of B.C. 33: 44-45.

SUKHDEO, M.V.K., AND E. MEEROVITCH. 1977. Comparison of three geographical isolates of *Trichinella*. Canadian Journal of Zoology 55: 2060-2064.

SWALES, W.E. 1933a. A review of Canadian helminthology. I. The present status of knowledge of the helminth parasites of domesticated and semidomesticated mammals and economically important birds in Canada, as determined from work published prior to 1933. Canadian Journal of Research, Section D, Zoological Sciences 8: 468-477.

SWALES, W.E., AND L. CHOQUETTE. 1940. Diagnostic et treitement des maladies parasitaires du mouton dans la provice de Quebec. Canadian Journal of Comparative Medicine 4: 292-294.

UHAZY, L.S., AND J.C. HOLMES. 1971. Helminths of the Rocky Mountain bighorn sheep in western Canada. Canadian Journal of Zoology 49: 507-512.

UHAZY, L.S., AND J.L. MAHRT. 1971. Coccidia of Rocky Mountain bighorn sheep in Western Canada. Canadian Journal of Zoology 49: 1461-1464.

WARDLE, R.A. 1933. The parasitic helminths of Canadian animals. I. The Cestodaria and Cestoda. Canadian Journal of Research, Section D, Zoological Sciences 8: 317-333.

WEBSTER, C.A., AND T.W.M. CAMERON. 1967. Epidemiology and diagnosis of echinococcosis in Canada. Canadian Medical Association Journal 96: 600-607.

WOBESER, G., R.J. CAWTHORN, AND A.A. GAJADHAR. 1983. Pathology of *Sarcocystis campestris* infection in Richardson's ground squirrels (*Spermophilus richardsonii*). Canadian Journal of Comparative Medicine 47: 198-202.

WOLFGANG, R.W., AND J.B. POOLE. 1956. Distribution of *Echinococcus* disease in northwestern Canada. American Journal of Tropical Medicine and Hygiene 5: 869-871.

INDEX
PARASITES

Acanthatrium eptesici 11
Acanthatrium nycteridis 11
Acanthocephala 44
Ackertia marmotae 32
Adeleina 7
Adenophorea 25
Aelurostrongylus pridhami 35
Alaria alata 8
Alaria americana 8
Alaria arisaemoides 9
Alaria canadensis 9
Alaria canis
see *Alaria americana* 8
Alaria craterum 9
Alaria marcianae 9
Alaria mustelae 9
Alaria taxideae 9
Alaria spp. 9
Allintoshius nycticeius 41
Amoebida 3
Amphibiophilidae 39
Ancylostoma caninum 35
Ancylostomatidae 35
Ancylostomatoidea 35
Andersonstrongylus captivensis 35
Andrya arctica 14
Andrya bairdi 15
Andrya communis 15
Andrya macrocephala 15
Andrya neotomae 15
Andrya primordialis 15
Andrya sciuri 15
Andrya sp. 15
Angiostrongylidae 35
Angiostrongylus vasorum 35
Anisakidae 28
Anisakis sp. 28
Anoplocephalidae 14
Apicomplexa 3
Apophallus venustus 11
Apophallus sp. 11
Archiacanthocephala 44
Arthrocephalus lotoris 35
Ascaridida 28
Ascarididae 28
Ascaridoidea 28
Ascaris columnaris
see *Baylisascaris columnaris* 28
Ascaris devosi
see *Baylisascaris devosi* 28
Ascaris obvelata
see *Syphacia obvelata* 30
Ascaris transfuga
see *Baylisascaris transfuga* 29
Ascaris spp. 28
Atriotaenia procyonis 15
Avitellina arctica 15
Avitellina spp. 15

Baylisascaris columnaris 28
Baylisascaris devosi 28
Baylisascaris laevis 29
Baylisascaris transfuga 29
Baylisascaris sp. 29
Besnoitia spp. 3
Brachylaemidae 8
Brachylaima sp. 8

Capillaria aerophila 26
Capillaria eubursata 26
Capillaria hepatica 26
Capillaria michiganensis 27
Capillaria mustelorum 27
Capillaria plica 27
Capillaria procyonis 27
Capillaria putorii 27
Capillaria ransomia 27
Capillaria spp. 27
Castorstrongylus castoris 39
Catatropis filamentis
see *Notocotylus filamentis* 12
Catenotaenia dendritica 17
Catenotaeniidae 17
Cephaluris alaskensis 30
Cephaluris coloradensis 30
Cercopithifilaria leporinus 32
Cestoidea 14
Chabertiidae 39
Chilomastix bettencourti 3
Choanotaenia nebraskensis 17
Choanotaenia peromysci 17
Choanotaenia spermophili 17
Choanotaenia sp. 17
Citellinema bifurcatum 40
Cittotaenia pectinata 15
Cittotaenia pectinata americana 15
Cladotaenia circi 18
Cladotaenia globifera 18
Cladotaenia mirsoevi 18
Cladotaenia spp. 19
Cooperia oncophora 42
Crenosoma decoratum 36
Crenosoma goblei 36
Crenosoma hermani 36

Crenosoma mephitidis 36
Crenosoma petrowi 36
Crenosoma potos 36
Crenosoma vulpis 36
Crenosoma spp. 36
Crenosomatidae 36
Cryptocotyle lingua 11
Cyclophyllidea 14
Cylicospirura subaequalis 34
Cysticercus fasciolaris 19
Cysticercus ovis 19
Cysticercus pisiformis 19
Cysticercus talpae 19
Cysticercus tarandi 19
Cysticercus tenuicollis 19
Cysticercus spp. 19

Diandrya vancouverensis 15
Dicrocoeliidae 8
Dicrocoelium dendriticum 8
Dicrocoelium lanceolatum
see *Dicrocoelium dendriticum* 8
Dictyocaulidae 39
Dictyocaulus filaria 39
Dictyocaulus hadweni 39
Dictyocaulus viviparus 39
Dictyocaulus spp. 40
Digenea 8
Dilepididae 17
Dioctophyma renale 25
Dioctophymatidae 25
Dioctophymatoidea 25
Dipetalonema mephitis 32
Dipetalonema sprenti 32
Diphyllobothriidae 24
Diphyllobothrium cordatum 24
Diphyllobothrium latum 24
Diphyllobothrium ursi 24
Diphyllobothrium spp. 25
Diplomonadida 2
Diplostomidae 8
Diplostomum mergi 9
Diplostomum spathaceum 9
Dipylidium caninum 17
Dirofilaria scapiceps 32
Dirofilaria ursi 32
Dracunculidae 31
Dracunculoidea 31
Dracunculus insignis 31
Dracunculus lutrae 31
Dracunculus spp. 31

Echinochasmus schwartzi 10
Echinococcus granulosus 19
Echinococcus granulosus canadensis 20
Echinococcus multilocularis 20
Echinococcus multilocularis sibiricensis 20
Echinococcus sp. 20
Echinoparyphium contiguum 10
Echinoparyphium recurvatum 10
Echinoparyphium sp. 10
Echinorhynchida 44
Echinorhynchidae 44
Echinorhynchus lateralis 44
Echinostoma callawayensis 10
Echinostoma revolutum 10
Echinostoma spp. 10
Echinostomatidae 10
Eimeria ahsata 3
Eimeria albertensis 4
Eimeria arizonensis 4
Eimeria athabascensis 4
Eimeria banffensis 4
Eimeria barretti 4
Eimeria bilamellata 4
Eimeria borealis 4
Eimeria calentinei 4
Eimeria callospermophili 4
Eimeria carinii 4
Eimeria circumborealis 4
Eimeria confusa 4
Eimeria crandallis 4
Eimeria dorneyi 4
Eimeria faurei 4
Eimeria granulosa 4
Eimeria holmesi 5
Eimeria intricata 5
Eimeria keithi 5
Eimeria klondikensis 5
Eimeria lateralis 5
Eimeria leporis 5
Eimeria miyairii 5
Eimeria moschati 5
Eimeria mustelae 5
Eimeria ninakohlyakimovae 5
Eimeria ontarioensis 5
Eimeria oomingmakensis 5
Eimeria ovibovis 5
Eimeria ovina 5
Eimeria parva 5
Eimeria princepsis 5
Eimeria robertsoni 6
Eimeria rochesterensis 6
Eimeria rowani 6
Eimeria ruficaudati 6
Eimeria separata 6
Eimeria siniffi 6
Eimeria spermophili 6
Eimeria stiedae 6
Eimeria tamiasciuri 6
Eimeria toddi 6
Eimeria townsendi 6
Eimeria worleyi 6
Eimeria spp. 6

Eimeriina 3
Elaeophora schneideri 32
Elaphostrongylus cervi 37
Elaphostrongylus odocoilei 37
Encephalitozoon cuniculi 8
Enoplida 25
Entamoeba muris 3
Eucestoda 14
Eucoccidiida 3
Eugenuris talkeetnaeuris
see *Labiostomum talkeetnaeuris* 30
Eumetazoa 8
Euparyphium inerme 10
Euparyphium melis 10
Euryhelmis pyriformis 11
Eustrongylides sp. 25

Fasciola hepatica 10
Fasciola magna
see *Fascioloides magna* 11
Fasciolidae 10
Fascioloides magna 11
Fibricola cratera 10
Fibricola laruei 10
Filaria scapiceps
see *Dirofilaria scapiceps* 32
Filaria sp. 31
Filariidae 31
Filarioidea 31
Filaroides bronchialis
see *Filaroides martis* 36
Filaroides canadensis 36
Filaroides martis 36
Filaroides mephitis 37
Filaroididae 36
Frenkelia microti 6

Giardia mesocricetus 2
Giardia microti 2
Giardia muris 2
Giardia peromysci 2
Giardia simoni 2
Gigantorhynchida 44
Gigantorhynchidae 44
Gnathostoma miyazakii 33
Gnathostomatidae 33
Gnathostomatoidea 33
Graphidiella ochotonae 39

Haemonchus contortus 42
Haemonchus ostertagi 42
Haemonchus placei 42
Heligmosomidae 40
Heligmosomoides polygyrus 40
Heligmosomum carolinensis 40
Heligmosomum hudsonius 40
Heligmosomum muris 40

Hepatozoon spp. 7
Heterakidae 29
Heterakoidea 29
Heterakis spumosa 29
Heterophyidae 11
Heteroxynema cucullatum 30
Heteroxynematidae 29
Hexamitidae 2
Hymenolepididae 17
Hymenolepis bennetti 17
Hymenolepis citelli 17
Hymenolepis diminuta 17
Hymenolepis evaginata 17
Hymenolepis gertschi 17
Hymenolepis horrida 18
Hymenolepis johnsoni 18
Hymenolepis murina 18
Hymenolepis octocoronata 18
Hymenolepis spp. 18

Isospora marquardti 7
Isospora yukonensis 7

Kinetoplastida 2

Labiostomum coloradensis 30
Labiostomum rauschi 30
Labiostomum talkeetnaeuris 30
Labiostomum sp. 30
Lecithodendriidae 11
Lecithodendrium anticum 11
Lecithodendrium posticum 11
Limatulum gastroides 11
Litomosoides carinii 32
Litomosoides guiterasi 32
Lobosea 3

Marshallagia marshalli 42
Marshallagia spp. 42
Mastigophora 2
Mastophorus muris
see *Protospirura muris* 35
Mediorhynchus robustus 44
Mesocestoides kirbyi 18
Mesocestoides latus 18
Mesocestoides spp. 18
Mesocestoididae 18
Metastrongyloidea 35
Metorchis conjunctus 12
Microfilaria mephitis
see *Dipetalonema mephitis* 32
Microphallidae 12
Microphallus sp. 12
Microspora 8
Microsporea 8
Microsporida 8
Molineidae 40

Molineus sp. 40
Moniezia benedini 15
Moniezia expansa 16
Moniezia sp. 16
Moniliformida 44
Moniliformidae 44
Moniliformis spiradentatis 44
Multiceps multiceps
see *Taenia multiceps* 22
Multiceps serialis
see *Taenia serialis* 23
Multiceps sp. 21
Murielus harpespiculus 40

Nanophyetus salmincola 14
Nemathelminthes 25
Nematoda 25
Nematodirella alcidis 40
Nematodirella longispiculata 40
Nematodirella longispiculata antilocaprae 41
Nematodirella sp. 41
Nematodirus archari 41
Nematodirus davtiani 41
Nematodirus filicollis 41
Nematodirus helvetianus 41
Nematodirus maculosus 41
Nematodirus odocoilei 41
Nematodirus oiratianus 41
Nematodirus spathiger 41
Nematodirus triangularis 41
Nematodirus spp. 41
Nematospiroides carolinensis
see *Heligmosomoides carolinensis* 40
Nematospiroides dubius
see *Heligmosomoides polygyrus* 40
Nippostrongylus muris
see *Heligmosomoides muris* 40
Notocotylidae 12
Notocotylus filamentis 12
Notocotylus quinqueserialis
see *Quinqueserialis quinqueserialis* 12
Notocotylus urbanensis 12
Nudacotyle novicia 12

Obeliscoides cuniculi 42
Obeliscoides cuniculi cuniculi 42
Obeliscoides cuniculi multistriatus 42
Oesophagostomum venulosum 39
Oesophagostomum sp. 39
Onchocerca cervipedis 33
Onchocerca sp. 33
Onchocercidae 32
Oochoristica oklahomensis 16
Opisthorchiidae 12
Opisthorchis tonkae 12
Ornithostrongylidae 41
Orthostrongylus macrotis 37
Oslerus osleri 37
Oslerus sp. 37
Ostertagia bisonis 42
Ostertagia circumcincta 42
Ostertagia dikmansi 43
Ostertagia marshalli 43
Ostertagia mossi 43
Ostertagia occidentalis 43
Ostertagia odocoilei 43
Ostertagia oreamni 43
Ostertagia ostertagi 43
Ostertagia trifurcata 43
Ostertagia spp. 43
Oxynema sp. 29
Oxyurida 29
Oxyuridae 30
Oxyuroidea 29

Palaeacanthocephala 44
Paragonimus kellicotti 14
Paragonimus spp. 14
Parametorchis canadensis 13
Paramphistomidae 13
Paramphistomum cervi 13
Paramphistomum liorchis 13
Paramphistomum spp. 13
Paranoplocephala infrequens 16
Paranoplocephala lemmi 16
Paranoplocephala variabilis 16
Parelaphostongylus andersoni 37
Parelaphostongylus odocoilei 37
Parelaphostongylus tenuis 37
Parelaphostongylus sp. 38
Paruterina candelabraria 17
Paruterina rauschi 17
Passalurus nonanulatus 30
Pelodera strongyloides 31
Phagicola longa 11
Pharyngostomoides adenocephala 10
Pharyngostomoides procyonis 10
Physaloptera bispiculata 33
Physaloptera maxillaris 33
Physaloptera praeputialis 33
Physaloptera rara 34
Physaloptera spinicauda 34
Physaloptera spp. 34
Physalopteridae 33
Physalopteroidea 33
Placoconus lotoris 35
Plagiorchiidae 13
Plagiorchis elegans 13
Plagiorchis muris 13
Plagiorchis noblei 13
Plagiorchis proximus 13
Plagiorchis vespertilionis 14
Plagiorchis sp. 14
Platyhelminthes 8

Pneumostrongylus tenuis
see *Parelaphostrongylus tenuis* 37
Polymorphida 44
Polymorphidae 44
Polymorphus paradoxus 44
Polymorphus spp. 44
Postharmostomum helicis 8
Prosthodendrium macnabi 11
Prosthodendrium naviculum 11
Prosthodendrium silvai 12
Prosthodendrium swansoni 12
Prosthodendrium spp. 12
Protospirura ascaroidea 34
Protospirura muris 35
Protostrongylidae 37
Protostrongylus boughtoni 38
Prostostrongylus macrotis 38
Prostostrongylus rushi 38
Protostrongylus stilesi 38
Protostrongylus sp. 38
Protozoa 2
Pseudophyllidea 24
Psilostomidae 14
Psilostomum ondatrae 14

Quinqueserialis quinqueserialis 12
Quinqueserialis zibethicai 12

Retortamonadida 3
Rhabditida 31
Rhabditidae 31
Rhabditoidea 31
Rictulariidae 34
Rictularioidea 34
Rictularia citelli 34
Rictularia coloradensis 34
Rictularia lucifugus 34
Rictularia sp. 34
Rumenfilaria andersoni 33

Sarcocystis campestris 7
Sarcocystis spp. 7
Sarcodina 3
Sarcomastigophora 2
Scaphiostomum pancreaticum 8
Schistocephalus solidus 25
Schistosomatidae 14
Schistosomatium douthitti 14
Schizorchis caballeroi 16
Schizorchis ochotonae 16
Secernentea 28
Setaria cervi 33
Setaria labiatopapillosa 33
Setaria tundra 33
Setaria yehi 33
Setaria spp. 33

Skrjabinema oreamni
see *Ostertagia oreamni* 43
Skrjabinema ovis 30
Skrjabinema sp. 30
Skrjabingylidae 38
Skrjabingylus chitwoodorum 38
Skrjabingylus lutrae 38
Skrjabingylus magnus 38
Skrjabingylus nasicola 39
Skrjabingylus sp. 39
Sobolevingylus sp. 36
Spiculopteragia bohmi 43
Spirocerca arctica 34
Spirocerca lupi 34
Spirocercidae 34
Spirurida 31
Spiruridae 34
Spiruroidea 34
Spirura infundibuliformis 35
Sporozoea 3
Stephanoproraoides lawi 14
Stichorchis subtriquetrus 13
Strongylida 35
Strongyloidea 39
Strongyloididae 31
Strongyloides papillosus 31
Strongyloides ratti 31
Strongyloides robustus 31
Strongyloides sp. 31
Subuluridae 29
Subuluroidea 29
Syphacia citelli 30
Syphacia eutamii 30
Syphacia obvelata 30
Syphacia peromysci 30
Syphacia thompsoni 30

Taeniidae 18
Taenia crassiceps 21
Taenia hydatigena 21
Taenia krabbei 21
Taenia laticollis 22
Taenia macrocystis 22
Taenia martis 22
Taenia multiceps 22
Taenia mustelae 22
Taenia omissa 23
Taenia ovis 23
Taenia pisiformis 23
Taenia polyacantha 23
Taenia rileyi 23
Taenia serialis 23
Taenia sibirica 23
Taenia taeniaeformis 24
Taenia taxidiensis 24
Taenia tenuicollis
see *Taenia mustelae* 22

Taenia twitchelli 24
Taenia spp. 24
Teladorsagia davtiani 43
Teladorsagia spp. 43
Thysanosoma actinioides 16
Toxascaris leonina 29
Toxascaris limbata
see *Toxascaris leonina* 29
Toxocara canis 29
Toxocara cati 29
Toxocara mystax
see *Toxocara cati* 29
Toxoplasma gondii 7
Travassosius americanus 44
Trematoda 8
Trichinellidae 25
Trichinelloidea 25
Trichinella spiralis 25
Trichinella spiralis var. *pseudospiralis* 26
Trichinella spp. 26
Trichomonadida 3
Trichomonas muris 3
Trichosomoides crassicauda 27
Trichostrongylidae 42
Trichostrongyloidea 39
Trichostrongylus axei 44
Trichostrongylus calcaratus 44
Trichostrongylus longispicularis 44
Trichostrongylus spp. 44
Trichuridae 26
Trichuris fossor 27
Trichuris leporis 27
Trichuris muris 27
Trichuris opaca 28
Trichuris oreamnos 28
Trichuris ovis 28
Trichuris schumakovitschi 28
Trichuris vulpis 28
Trichuris spp. 28
Trilobostrongylus bioccai 36
Troglotrematidae 14
Troglostrongylus wilsoni 36
Trypanosoma citelli 2
Trypanosoma evotomys 2
Trypanosoma hedricki 2
Trypanosoma leporis-sylvaticus 2
Trypanosoma lewisi 2
Trypanosoma microti 3
Trypanosoma myoti 3
Trypanosoma otospermophili 3
Trypanosoma peromysci 3
Trypanosoma soricis 3
Trypanosoma tamiasi 3
Trypanosoma sp. 3

Uncinaria yukonensis 35

Varestrongylus alpenae 38

Wardius zibethicus 13
Warrenius bifurcatus
see *Citellinema bifurcatum* 40
Wehrdikmansia cervipedis
see *Onchocerca cervipedis* 33
Wyominia tetoni 16

Zoomastigophorea 2
Zygocotyle lunata 13

HOSTS

Alces alces 48
Alces alces americana 48
Alces alces andersoni 49
Alces americana
see *Alces alces* 48
Alopex lagopus 51
Antilocapridae 47
Antilocapra americana 47
Artiodactyla 47

Barren-ground caribou 50
Bison bison 47
Blarina brevicauda 56
Bovidae 47

Canidae 51
Canis latrans 51
Canis lupus 51
Carnivora 51
Castoridae 58
Castor canadensis 58
Castor canadensis leucodontus 58
Cavia porcellus 58
Caviidae 58
Cervidae 48
Cervus canadensis
see *Cervus elaphus* 49
Cervus canadensis nelsoni
see *Cervus elaphus* 49
Cervus elaphus 49
Chiroptera 55
Citellus franklinii
see *Spermophilus franklinii* 62
Citellus richardsonii
see *Spermophilus richardsonii* 62
Citellus tridecemlineatus
see *Spermophilus tridecemlineatus* 63
Clethrionomys gapperi 58
Clethrionomys gapperi gapperi 58
Clethrionomys gapperi saturatus 58
Clethrionomys sp. 58
Clethrionomyx gapperi
see *Clethrionomys gapperi* 58
Cottontail 57
Coyote x Dog 52

Deer 50
Dicrostonyx groenlandicus 58
Dicrostonyx groenlandicus richardsoni 58
Dicrostonyx hudsonius 58
Dicrostonyx torquatus 58
Didelphidae 47
Didelphis marsupialis
see *Didelphis virginiana* 47
Didelphis virginiana 47

Elk 51
Eptesicus fuscus 55
Erethizontidae 58
Erethizon dorsatum 58
Euarctos americanus americanus
see *Ursus americanus* 55
Eutamias amoenus 62
Eutamias minimus 62
Eutheria 47
Evotomys saturatus
see *Myotis saturatus* 56

Felidae 52
Felis canadensis
see *Lynx canadensis* 52
Felis concolor 52
Felis concolor vancouverensis 52
Felis lynx
see *Lynx canadensis* 52
Felis rufus
see *Lynx rufus* 52
Ferret 54
Field mice 61

Geomyidae 58
Glaucomys sabrinus 62
Gulo gulo 52

Hamster (lab.) 61

Insectivora 56

Lagomorpha 56
Lasionycteris noctivagans 56
Lasiurus cinereus 56
Lemmus trimucronatus
see *Lemmus sibiricus* 59
Lemmus trimucronatus trimucronatus
see *Lemmus sibiricus trimucronatus* 59
Leporidae 56
Lepus americanus 56
Lepus americanus americanus 57
Lepus americanus pallidus 57
Lepus americanus struthopus 57
Lepus capensis 57
Lepus cuniculus
see *Oryctolagus cuniculus* 57
Lepus sylvaticus
see *Sylvilagus nuttallii* 57

Lontra canadensis
see *Lutra canadensis* 53
Lutra canadensis 53
Lutra canadensis canadensis 53
Lynx canadensis 52
Lynx lynx
see *Lynx canadensis* 52
Lynx rufus 52
Lynx rufus fasciatus 52

Mammalia 47
Marmota monax 62
Marmota monax canadensis 62
Marmota vancouverensis 62
Marsupialia 47
Martes americana 53
Martes americana actuosa 53
Martes americana americana 53
Martes americanus
see *Martes americana* 53
Martes martes 53
Martes pennanti 53
Martes pennanti pennanti 53
Mephitis mephitis 53
Meriones unguiculatus 59
Mesocricetus auratus (Lab) 59
Metatheria 47
Microtus chrotorrhinus 59
Microtus ochrogaster 59
Microtus pennsylvanicus 59
Microtus pennsylvanicus drummondii 59
Microtus pennsylvanicus pennsylvanicus 59
Microtus pennsylvanicus terraenovae 59
Microtus sp. 59
Mink 54
Moose 51
Mouse (Lab) 61
Muridae 58
Mus musculus 59
Mus musculus (lab) 59
Muskrat 61
Mustelidae 52
Mustela cicognani anguinae
see *Mustela erminea anguinae* 54
Mustela erminea 54
Mustela erminea anguinae 54
Mustela erminea richardsonii 54
Mustela frenata 54
Mustela frenata longicauda 54
Mustela putorius (Lab) 54
Mustela vison 54
Mustela vison vison 54
Myotis californicus 56
Myotis lucifugus 56
Myotis saturatus
see *Myotis yumanensis saturatus* 56
Myotis volans longicrus 56
Myotis yumanensis saturatus 56

Napaeozapus insignis algonquinensis
see *Napaeozapus insignis insignis* 63
Napaeozapus insignis insignis 63
Neotoma cinerea 60

Ochotona collaris 57
Ochotona princeps 57
Ochotonidae 57
Odocoileus columbianus
see *Odocoileus hemionus columbianus* 49
Odocoileus hemionus 49
Odocoileus hemionus columbianus 49
Odocoileus hemionus hemionus 49
Odocoileus virginianus 49
Odocoileus virginianus borealis 50
Odocoileus virginianus dacotensis 50
Odocoileus virginianus ochrourus 50
Odocoileus sp. 50
Ondatra zibethica
see *Ondatra zibethicus* 60
Ondatra zibethicus 60
Ondatra zibethicus obscurus 60
Ondatra zibethicus osoyoosensis 60
Otter 55
Oreamnos americanus 47
Oryctolagus cuniculus 57
Ovibos moschatus 47
Ovis canadensis 47
Ovis canadensis californiana 48
Ovis canadensis californianus
see *Ovis canadensis californiana* 48
Ovis canadensis canadensis 48
Ovis dalli 48

Pedomys ochrogaster
see *Microtus ochrogaster* 59
Peromyscus leucopus 60
Peromyscus leucopus noveboracensis 60
Peromyscus maniculatus 60
Peromyscus maniculatus gracilis 61
Peromyscus maniculatus nebrascensis 61
Phenacomys intermedius 61
Procyonidae 55
Procyon lotor 55
Procyon lotor hirtus 55

Rabbit 57
Rabbit (lab) 57
Raccoon 55
Rangifer arcticus
see *Rangifer tarandus* 50
Rangifer anticus arcticus
see *Rangifer tarandus* 50

Rangifer carbibou sylvestris
see *Rangifer tarandus* 50
Rangifer montanus
see *Rangifer tarandus* 50
Rangifer tarandus 50
Rangifer tarandus caribou 50
Rangifer tarandus groenlandicus 50
Rangifer tarandus tarandus 50
Rangifer tarandus terraenovae 50
Rangifer sp. 50
Rat (lab) 61
Rattus norvegicus 61
Rattus sp. 61
Red fox 52
Reindeer 51
Rodentia 58

Sciuridae 62
Sciurus carolinensis 62
Sigmodon hispidus (lab) 61
Soricidae 56
Sorex cinereus 56
Sorex fumeus 56
Sorex vagrans 56
Spermophilus columbianus 62
Spermophilus franklinii 62
Spermophilus parryii 62
Spermophilus richardsonii 62
Spermophilus tridecemlineatus 63
Spermophilus undulatus plesius
see *Spermophilus parryii* 62
Spilogale gracilis olympica
see *Spilogale putorius gracilis* 54
Spilogale putorius gracilis 54
Squirrel 63
Sylvilagus floridanus 57
Sylvilagus nuttallii 57
Synaptomys borealis 61
Synaptomys cooperi cooperi 61

Tamias striatus 63
Tamiasciurus hudsonicus 63
Tamiasciurus hudsonicus hudsonicus 63
Taxidea taxus 54
Thalarctos maritimus
see *Ursus maritimus* 55
Thomomys talpoides 58

Ursidae 55
Ursus americanus 55
Ursus americanus americanus 55
Ursus americanus vancouveri 55
Ursus arctos 55
Ursus maritimus 55

Varying hare 58
Vespertilionidae 55
Vespertilio subtilus
see *Myotis lucifugus* 56
Vulpes fulva
see *Vulpes vulpes* 52
Vulpes vulpes 52

Zapodidae 63
Zapus hudsonius 63